

**ᐃᓕᓴᓯ ᓕᓄᓯ ᓕᓄᓯ ᓕᓄᓯ ᓕᓄᓯ**  
**Educational Planning and Development**  
**EDM 2352**

**GgGW tcÜMög**

**ᓕᓄᓯ Ae GWᓕKkb**



**eᓯᓴ ᓯᓕᓄᓯ ᓕᓄᓯ ᓕᓄᓯ ᓕᓄᓯ**



This book is licensed under a  
Creative Commons Attribution 4.0 International License.







# mPcĪ

	<b>cW</b>	<b>cQv</b>
<b>BDĪbU 1</b>	<b>ġġv cwi KĪ bv: avi Yv, `eikó` Ges tkYx ġefiM</b>	<b>1</b>
	1.1 ġġv cwi KĪ bvi msÁv I j ġġ	2
	1.2 ġġv cwi KĪ bvi , i Zj I cġqvRbxqZv	6
	1.3 ġġv cwi KĪ bvi avc, Kvhpj x Ges tkYx ġefiM	10
	1.4 ġefbætkYxi cwi KĪ bv cwi ġPwZ	13
	1.5 AvÁġj K cwi KĪ bv Ges ġefbæcwi KĪ bvi Avš: mæúK	16
<b>BDĪbU 2</b>	<b>HwZnumK tġġvcġU evsj vġ`tki ġġv cwi KĪ bv</b>	<b>21</b>
	2.1 eġġK ceġevsj vġ`tki ġġv cwi KĪ bv	22
	2.2 eġġK kvmbvgġj evsj vġ`tki ġġv cwi KĪ bv	28
	2.3 cwiK`-vb kvmbvgġj evsj vġ`tki ġġv cwi KĪ bv	35
	2.4 `ġaxb evsj vġ`tki ġġv cwi KĪ bv (1972-1978)	43
	2.5 evsj vġ`tki ġġv cwi KĪ bv (1980-1985)	52
	2.6 evsj vġ`tki ZZxq cÁewl R ġġv cwi KĪ bv	64
	2.7 evsj vġ`tki PZZġcÁewl R ġġv cwi KĪ bv	71
	2.8 evsj vġ`tki cÁg cÁewl R ġġv cwi KĪ bv	83
	2.9 kvgmj nK ġġv Kġgkb ġi ġcvUġ ġġv cwi KĪ bv	96
<b>BDĪbU 3</b>	<b>ġġv cwi KĪ bv I Dbqġbi ġPvġelq</b>	<b>103</b>
	3.1 ġġv cwi KĪ bv I Kġms`vb	104
	3.2 ġġv cwi KĪ bv I A_ġbWZK Dbqġ	108
	3.3 ġġv cwi KĪ bv I RvZxq Dbqġ	113
<b>BDĪbU 4</b>	<b>ġġv cwi KĪ bvq cwi msL`vb</b>	<b>119</b>
	4.1 ġġv cwi KĪ bvq cwi msL`vġbi cġqvRbxqZv	120
	4.2 mn-mæÛ (Correlation)	125
	4.3 mn-mæÛ mnM : ġbYġ c×wZmgn	130
	4.4 ġbFġY (Regression)	138
	4.5 bgġvqb (Sampling) I bgġv Rixc (Sample Survey)	149
<b>BDĪbU 5</b>	<b>ġġv cwi KĪ bv cġġqġbi ġefbæġġcġP</b>	<b>157</b>
	5.1 ġġv cwi KĪ bvi ġġcġPmġ	158
	5.2 ġġv cwi KĪ bvi` I ġġv cwi KĪ bvi `eikó`	160
	5.3 ġġv: cġġ mbv <sup>3</sup> KiY, cġġqġ I ev`vevqb	162
	5.4 cġġ cġġqġbi thšw <sup>3</sup> KZv I cġġ ġġRvBb	165
<b>BDĪbU 6</b>	<b>ġġv cwi KĪ bv: cġġqv I tKšġj</b>	<b>169</b>
	6.1 cwi KĪ bvi ceġcġwZ	170
	6.2 ġġv cwi KĪ bv cġwZ	173
	6.3 ġġv cwi KĪ bv `ġj j cġġqġ I ġe`iY	176
<b>BDĪbU 7</b>	<b>ġġv ġwZ I ġm×vš</b>	<b>179</b>

7.1	<i>bnwZ I wmxvřš i avi Yv</i>	180
7.2	<i>wmxvřš MhřYi weteP" w el q I c`řřc</i>	183
7.3	<i>wmxvřš ev`evqřbi Kj řřKřkj</i>	186
7.4	<i>wmxvřš MhřY cřZeÜKZv</i>	189
7.5	<i>wj wřZ wmxvřš</i>	192
<b>BDřbU 8</b>	<b><i>wřřv cřř i cwi Kř bv cřřqb I ev`evqb</i></b>	<b>195</b>
8.1	<i>wřřv cřř cřřqb</i>	196
8.2	<i>wřřv cřř A_řqb</i>	200
8.3	<i>wřřv cřř FYMhřY PwřceřAvřj vPbv</i>	204
8.4	<i>wřřv cřř e`e`řcbv</i>	207
8.5	<i>evsj řř`řk wřřv cwi Kř bv cřřqb</i>	211
<b>BDřbU 9</b>	<b><i>wřřv cwi Kř bvi mwřcřřKřvj řb MwřZaviv I cřřj Z iwř</i></b>	<b>215</b>
9.1	<i>wřřv cwi Kř bvi mwřcřřKřvj řb MwřZaviv</i>	216
9.2	<i>cwi evřřY I gj`řqřbi cřřqvRbřqZv</i>	218
9.3	<i>cwi evřřY (gřřbUwřs) I gj`řqb</i>	224
<b>BDřbU 10</b>	<b><i>evsj řř`řki wřřv cwi Kř bv: AZřZ, eZřřb I řřel`Z</i></b>	<b>229</b>
10.1	<i>evsj řř`řki wřřv cwi Kř bv: AZřZ</i>	230
10.2	<i>cřřg cřřewřř ř cwi Kř bv</i>	234
10.3	<i>evsj řř`řki wřřv cwi Kř bv: řřel`Z</i>	242







c03b tmwftqZ BDwbqfbi A\_ᄡwZie` im. GBP Zziw`ᄡi gZ, 0By planning we mean the fullest and most rational utilization of all work and of all the material resources of the community, in the light of a scientific forecast of the trends of economic development and with strict observance of the laws of social development`.

A\_ᄡwZie` B. we. Avjvtf gfb Kfib 0Planning is the conscious activity of individuals in governing the economic, social and cultural life of a society through utilization of objective economic laws that are characteristic of the particular type of reproduction`.

Dcti cwiKibv ev A\_ᄡwZK cwiKibvi KtqKw msAv DxZ.Kiv nj | G mKj msAvi gvtS thgb wK0ycv\_ᄡ` cwi j wᄡZ nq, Avevi tKvb tKvb tᄡᄡᄡ mv`k`l t`Lv hvq| thᄡZz wKᄡv tKvb t`ᄡki mvgwMᄡ A\_ᄡwZiB GKUv tm±i, ZvB wKᄡv cwiKibvK Avti v mᄡw 0fivte msAvwqZ Kitz Dchᄡ msAv\_ t j v c\_ c0kᄡ wntmte KivR Kite| mvariYZ wKᄡv cwiKibv ejtZ tKvb wKᄡv e`e`vi mvgwMᄡ wᄡqvKjvc wbaᄡiZ mgᄡqi gᄡ` mᄡvite mᄡubæKivi Dᄡiᄡk` MpxZ wmxvSᄡKB tevSvq| A\_ᄡ wKᄡv mᄡwKᄡ tKvb KivR KLb, wKfivte, Kvᄡ`i gvaᄡg mᄡvififc mᄡv`b Kiv mᄡe BZ`w` mᄡwKᄡ ce`Zwi ifctiLvB nte wKᄡv cwiKibv| ceᄡm×vS`e`Zix wKᄡv cwiKibv mᄡvite mᄡubæKiv mᄡe bq|

wKᄡv mᄡwKᄡ tKvb KivR mᄡv`ᄡbi Rb` hLb wewfbæKí cšvi cᄡæAvᄡm ZLb Zvi ga` ᄡᄡK mteᄡg cšwU evQvB Kᄡi tbqvB nᄡ0 wKᄡv cwiKibv| tKvb t`ᄡki wKᄡvi j ᄡ` Ges Zv ARᄡbi c\_ wbaᄡYᄡKB AᄡᄡK wKᄡv cwiKibv etj \_vᄡKb| wKᄡv cwiKibv ntjvt A\_ᄡwZK, mvgwRK I wKᄡvbwZi mgvtek hv wewfbæj ᄡ` w`i Kᄡi Ges tm mKj j ᄡ` ARᄡbi c\_ I c×wZ wbaᄡY Kᄡi | AZGe, wKᄡv cwiKibv ntjv Ggb GKwU thšv3K cᄡqv hvi gvaᄡg gvby mᄡPZbfivte wᄡRi Avb I enx cᄡqvM Kᄡi wKᄡvi KZK\_ t j v j ᄡ` wᄡvZ Kᄡi Ges tmmKj j ᄡ` wv 0 mgᄡq ARᄡbi c×wZ I mᄡv`i cwi gvY wbaᄡY Kᄡi |

### wKᄡv cwiKibv j ᄡ`

wKᄡv cwiKibv GKwU MwZkxj I `xNᄡgv`x cᄡqv| th tKvb mgvᄡRi gvbyᄡK mvgwRK I A\_ᄡwZK Dbᄡᄡbi GKwU mᄡw 0 chᄡq tcS0ᄡᄡbi Dᄡiᄡk`B wKᄡv cwiKibv `iKvi nq| tKvb t`ᄡki mvgwRK I A\_ᄡwZK Dbᄡᄡbi Rb` th wKᄡv cwiKibv cᄡqb Kiv nq Zv gj-Z miKvᄡi gvaᄡgB nᄡq \_vᄡK| Dbᄡᄡkxj t`kmgᄡni mvgwRK I A\_ᄡwZK cᄡvrc`Zvi KviᄡY H me t`ᄡk MwZkxj wKᄡv cwiKibv cᄡqb e`vcK cᄡZeÜKZv mᄡ0 nq| ZvQvov GKUv `xNᄡmgq ci wKᄡvLvᄡZ e`wqZ Aᄡ\_P djvdj AvRᄡ nq etj wKᄡvi ZurichᄡK AᄡK mgq h\_vh\_fivte gj`vqb Kiv mᄡe nq bv| mteᄡcwi wKᄡv cwiKibvq KZK\_ t j v j ᄡ` wbaᄡY Kiv nq hv `xNᄡv j xb tgqv` cᄡqvM Kiv nᄡq \_vᄡK| GB mgqU ntjv wKᄡv\_xᄡ cᄡwK we`vjᄡq fivZ`nlqv t`ᄡk i iæ Kᄡi wKᄡv tᄡl kᄡg wᄡqvRZ nlqv chᄡ| wKᄡv cwiKibvq mvgwRK, ivRᄡwZK Ges A\_ᄡwZK Aeque\_ t j v (Aspects) me mgq mvgAm`cᄡbvI nᄡZ cvᄡi| Rivxq Dᄡiᄡk`i tKvb tKvb chᄡq (Stage) `f tgqv`x Ges `xNᄡgv`x cwiKibv GKxfZ nᄡq hvq|

ukvlu cwi Kibvi j q' , tju t`tki A\_`vuzK I mvgvRK Pvn`vi ubv`l ubav`Z nq/ GtZ tKvb t`tki A\_`vuzK I mvgvRK Dbq`bi `li , ukvluq AMvuz ev c`vrc`Zv, m`u` c`vB c`vuz`K me`epbvq Avb`Z nq/ G mKj v`lq me`epbvi dtj t`Lv hvq th, Dbz t`kmg`ni ukvlu cwi Kibvi j q' mg`ni m`\_ Dbq`bkj t`kmg`ni ukvlu cwi Kibvi j q' mg`ni e`vcK cv\_`R` itq`Q/ Avevi ukvlu I A\_`vuzK Dbq`bi `li t`f` Dbq`bkj t`k\_ tju ukvlu cwi Kibvi gv`SI cv\_`R` j q' Kiv hvq/ evsj v`tki b`vq `f`v`z t`kmg`ni ukvlu cwi Kibvi j q' , tju n`q\_ v`K v`btg`e` ai`bi :

1. GKvU ubv`' mgtqi g`a` ukvlu t`q`f` ubv`' cwi gvY mv`ji Zvi nvi AR` Kiv,
2. c`v`gK v`'ij`q Mg`bv`cv`thv`Mx eq`mi ukv`i m`e` `f`Zg mgtqi g`a` Avb`v`bK ukv`vi Avl Zvq Avb`q Kiv,
3. Kvi Mix I ev`Eg`-K ukv`vi Dbq`b mvab,
4. Kvi Mvi, ev`Eg`-K, mvariY I v`Avb ukv`vi Dbq`bi gva`tg Avb-`v`f`P mgv`Ri v`f`v` `v`cb Kiv,
5. ukv`v`K evRi`g`v` A\_`P Drcv``bi v`v`f`v`v`Zi m`\_ m`u`<sup>3</sup> Kiv,
6. D`P ukv`v`K tgav `v`f`P Ges hv`h` e`q (Cost Effective) v`m`te c`v`v`Z Kiv,
7. ukv`v` Dbq`b temi Kvi`Lv`Zmn v`v`f`v`mvgvRK Rb`Mv`v`K (Community) m`u`<sup>3</sup> Ges Drm`v`Z Kiv/
8. kni I M`v`gi g`a` v`v`f`v`v`A`j I cveZ`A`v`i g`a` v`'gvb ukv`vi `elg` `i` Kiv,
9. bvi`x`-c`j`v`l, v`v`f`v`v`g`v` e`f`Y`P gv`v`j`i g`a` ukv`v`v`v`v` v`'gvb `elg` `i` Kiv,
10. vbi`ji I eq`-`f`i Rb` ukv`vi e`e`v` Kiv Ges `f` ukv`v`Z eq`-`f`i Av`K`Zi ukv`v`v`bi e`e`v` Kiv,
11. Dcv`v`v`bK ukv`v`v`b`K Drm`v`Z I kv`<sup>3</sup>kv`x` Kiv,
12. mK`j`i Rb` ukv`v` Ges MYmv`ji Zv AR`bi c`v`P`v` M`h`Y Kiv,
13. v`v`f`v`v`-`f`i ukv`v`vi \_YMZ gv`b Dbq`b`b` ch`v`B ukv`v`K v`b`qv`M`v`b Ges t`tk I v`e`-`tk ukv`v`K`i`i c`v`K`v`Yi e`e`v` Kiv/
14. ukv`v`vi gv`b Dbq`bi j`q` v`v`f`v`v`-`f`i`i c`v`j` Z v`m`t`j` evm` ch`v`j`v`P`v` Kiv I Dbz`Zi ukv`v`vi v`m`t`j` evm` c`v`j` b Kiv c`v`v`Z.

AZGe, Rbkv`<sup>3</sup>tk Rbm`u` I cv`R`Z cwi YZ KivB n`ju ukv`v` cwi Kibvi gj`-`j`q`/ Ab`f`v`te ejv hvq, ukv`v` cwi Kibvi gj`-`j`q` n`ju Avb `v`f`P mgv`R v`v`bg`v`Yi gva`tg t`tki mvgvRK, A\_`vuzK I ivR`vuzK Dbq`b`K Zj`v`S`Z Kiv/ Gf`v`te AvR`K`i cwi Kiv Z ukv`v`v`B f`v`el`Z Dbz mgv`R MV`bi mdj Zv AR`bi Kv`Z`Z`j`enb Ki`Z` c`v`i`/



### **cvṽVĒi gj`vqb: 1.1**

#### **Aṽ) eũibePbx cĕæ**

mṽWK DĒi ṽbṽ`R gj-K AḡiṽUṽK eĒvṽqZ Kiab | (D`vniY: Avcbvi ṽbePZ DĒiṽU ŐKŐ ntj GṽK (K) eĒvṽqZ Kiab)

- 1/ ṽKḡṽK gṽbṽj i eḡeĒK ṽeKṽk, KṽRi DĒxcbv I ṽbcyZṽ evovṽbvi Dcv`vb ṽṽṽṽ th me aṽc`x A\_ḡṽZṽe` ṽKvi KṽiṽQb, Zṽṽ ntj b-  
 K. jṽvi ṽj K, B.ṽe. A`vj ṽṽqf, Avj evUḡ qṽUvi ÷ b  
 L. AgZ`ḡmb, m`vgṽj mb, ṽḡRṽddi Avṽḡ`  
 M. ṽṽṽṽ ṽi Kṽṽṽ, Rb ÷ qṽUḡḡ, Avj ṽdW gṽkṽḡ  
 N. Zṽṽ, Avj ṽṽqf, ṽDg`vb |
- 2/ ṽKṽ mgq ṽ\_ṽK mḡḡṽRK I A\_ḡṽZK Dbḡṽṽ ṽKḡṽ ṽi aṽj ṽKvi Kṽ ntjṽQ?  
 K. ṽesk kZṽāxi cĀṽṽki `kK ṽ\_ṽK  
 L. Ebṽesk kZṽāxi cĀṽṽki `kK ṽ\_ṽK  
 M. GKṽesk kZṽāxi cĀṽṽki `kK ṽ\_ṽK  
 N. Aóv`k kZṽāxi cĀṽṽki `kK ṽ\_ṽK |
- 3/ ṽKḡṽ cṽi Kí bvi j ḡṽ, ṽj ṽKṽṽṽ ṽbaṽi Z nq?  
 K. ṽṽki iṽRḡṽZK I ṽṽṽṽṽ K Pṽṽ`vi ṽbvi ṽL  
 L. ṽṽki A\_ḡṽZK I mḡḡṽRK Pṽṽ`vi ṽbvi ṽL  
 M. ṽṽki RbMY I cṽi Kí bṽe`ṽ i Pṽṽ`vi ṽbvi ṽL  
 N. ṽṽki iṽRḡṽZṽe` I mḡḡṽRKḡḡ i Pṽṽ`vi ṽbvi ṽL |

#### **Aṽ) msṽḡB DĒi cĕæ**

1. Rṽṽ mṽṽNi mṽṽY cṽi I` 1969 mṽṽ cṽi Kí bvi th msĀṽ cŏvb KṽiṽQ Zṽ ṽj Lḡ |
2. A\_ḡṽZṽe` B.ṽe. A`vj ṽṽqf cṽi Kí bṽṽ ṽKṽṽṽ msĀṽṽZ KṽiṽQb?
3. ṽKṽ ṽṽki mḡḡṽṽ cṽi Kí bṽṽ ṽKḡṽ cṽi Kí bvi Ae`vb ṽK Zṽ ṽj Lḡ |
4. Dbṽ I Dbḡḡḡḡ ṽṽ kḡḡḡḡ ṽKḡṽ cṽi Kí bṽṽ ṽK ṽK cṽ`R` i ṽṽṽQ?
5. ṽKḡṽ cṽi Kí bvi msĀṽ ṽj Lḡ |

#### **B) iPbḡj-K cĕæ**

1. evsj ṽṽṽki b`vq ṽṽṽ ṽṽṽṽṽ ṽKḡṽ cṽi Kí bvi j ḡṽ, ṽj ṽi ṽeiY ṽ`b |

**mṽWK DĒi:**

**A) 1| M    2| K    3| L**



2. **cūwz:** 𐌿𐌺𐌹 cwi Kí bv ntj v GKtmU 𐌿𐌿všl cūZKiþYi cūq̄qv Ges Bnv mi Kvi x tKvb ms̄vi gvātg MpxZ I ev̄l̄vqZ nq|
3. **tmU:** Gt̄q̄t̄ 𐌿𐌿všl cūZKiY I 𐌿𐌺𐌹 cwi Kí bvi gtā cv̄R̄ 𐌿bYq̄gi cūqvRb nq| h̄v̄ I 𐌿𐌺𐌹 cwi Kí bv ntj v GK aiþbi 𐌿𐌿všl cūZKiY, 𐌿Kš' Gt̄q̄t̄ 𐌿𐌺𐌹 cwi Kí bv ntj v GK tmU 𐌿𐌿všl̄i mgv̄vi | Gt̄Z AþK, t̄j v cī úi 𐌿bF̄P̄k̄j ḡv̄Ū? 𐌿v̄K h̄v 𐌿bq̄gZv̄šK̄f̄iᚦe 𐌿𐌺𐌹 m̄úwKZ 𐌿𐌿všl̄M̄h̄t̄Y m̄v̄v̄t̄h̄ K̄ti |
4. **𐌿𐌿všl̄ ev̄l̄vq̄b:** cūw̄gK̄f̄iᚦe 𐌿𐌺𐌹 cwi Kí bvi Rb̄ cwi Kí b̄v̄e, cwi Kí bv m̄úþK̄ Ávb m̄úþ̄ēw̄, cwi Kí bv ev̄l̄vq̄t̄bi Rb̄ t̄Ūb̄sc̄Ń̄ ēw̄, Db̄z̄Zi 𐌿𐌿všl̄ cūZKiY c̄f̄w̄Z. Kiv m̄úþ̄ēKīt̄Z nq| AZtci cwi Kí b̄vi Rb̄ R̄b̄m̄ḡ Av̄vq I MYm̄úK̄ Db̄q̄b c̄f̄w̄Z. Kīt̄Z nq| m̄ēf̄k̄t̄l̄ 𐌿𐌺𐌹 cwi Kí b̄v̄t̄K̄ ev̄l̄vq̄b Kivi Rb̄ m̄þPó n̄t̄Z nq|
5. **f̄iel̄r̄ 𐌿w̄f̄iᚦ:** 𐌿𐌺𐌹 cwi Kí b̄vi m̄ēv̄c̄q̄v̄ t̄ēw̄ cūqvR̄b̄x̄ D̄cv̄v̄b̄ ntj v B̄nv̄ f̄iel̄r̄ Kḡēš̄v̄ 𐌿b̄āīP̄Ȳ K̄ti | Gt̄Z eZḡv̄b̄ 𐌿𐌿všl̄i t̄c̄Ń̄t̄Z f̄iel̄ t̄zi cūq̄cY (Projection) Kiv nq Ges cwi Kí b̄v̄K̄j̄x̄b̄ mḡt̄q̄ Āw̄ēiv̄ḡ c̄b̄ḡj̄v̄q̄b, D̄c̄t̄h̄v̄R̄b̄ (Adjustment) c̄f̄w̄Z. ī gvātḡ b̄ḡb̄x̄q̄ (Flexible) cwi Kí bv M̄pxZ nq|
6. **j̄ q̄ 𐌿w̄f̄ḡl̄ȳZ:** f̄iel̄ "Z 𐌿K̄Ōj̄ q̄" AR̄f̄bi Rb̄ 𐌿𐌺𐌹 cwi Kí b̄vi Kḡēš̄v̄q̄ AþK, t̄j v m̄ḡv̄īk̄ M̄pxZ n̄t̄q̄ 𐌿v̄t̄K̄| Zvi ĀGB̄ b̄q̄ t̄h, cwi Kí bv cūq̄qv̄ cwī vī f̄iᚦe ms̄Áv̄iq̄Z D̄t̄īk̄v̄ej̄x̄ī m̄v̄v̄t̄h̄ m̄ēv̄ Kiv̄ īīǣ K̄ti | Āw̄āK̄v̄sk̄ t̄q̄t̄ 𐌿𐌺𐌹 cwi Kí b̄vi cūḡ ch̄īq̄ Kiv̄ Kivi Rb̄ D̄t̄īk̄v̄ej̄x̄ m̄īb̄w̄ Ń̄f̄iᚦe ms̄Áv̄iq̄Z I m̄f̄w̄iq̄Z Kiv nq bv, eis 𐌿K̄Ōj̄b̄w̄Z (Policy) 𐌿b̄āīȲ Kiv nq|
7. **Kiv̄ D̄c̄KīY:** 𐌿𐌺𐌹 cwi Kí b̄vi K̄v̄w̄LZ̄ j̄ q̄ AR̄f̄bi Rb̄ 𐌿K̄Ōj̄h̄š̄v̄K̄ cūq̄qv̄ī gvātḡ ĀM̄h̄ī n̄t̄Z nq| Z̄v̄nt̄j̄v̄ Z̄ m̄s̄M̄h̄KīY, Áv̄t̄bī ēenv̄i, 𐌿b̄q̄gZv̄šK̄ I mḡv̄šZ̄f̄iᚦe D̄cv̄Ē cūq̄qv̄R̄v̄Z̄KīY c̄f̄w̄Z. | 𐌿𐌺𐌹 cwi Kí b̄vi c̄x̄w̄Z, Kiv̄ē̄Ń̄j̄x̄ Ges t̄K̄š̄k̄t̄j̄ ī t̄ḡš̄j̄ K̄ j̄ q̄ ntj v m̄v̄ḡv̄b̄Z̄ḡ m̄úþ̄ī (Input) m̄v̄v̄t̄h̄ Ḡmē Kiv̄ D̄c̄KīYm̄ḡf̄aī mīeīv̄n̄ 𐌿b̄w̄ōZ̄ Kiv̄|

### 𐌿𐌺𐌹 cwi Kí b̄vi ḡj̄-b̄w̄Z

𐌿𐌺𐌹 cwi Kí bv KZK, t̄j v ḡj̄-b̄w̄Zī D̄cī 𐌿f̄iᚦ̄ K̄tī īw̄PZ̄ nq| ev̄sj̄v̄t̄þ̄kī b̄v̄q̄ 𐌿w̄ī? mḡm̄v̄ RR̄f̄Z̄ I 𐌿t̄īv̄b̄z̄ t̄þ̄k̄ 𐌿𐌺𐌹 cwi Kí bv t̄h̄mē ḡj̄-b̄w̄Zī D̄cī 𐌿f̄iᚦ̄ K̄tī īw̄PZ̄ nq Z̄v̄ m̄st̄q̄t̄c̄ 𐌿b̄t̄ḡēt̄ q̄v̄ n̄j̄ :

1. 𐌿𐌺𐌹 cwi Kí bv c̄Ń̄q̄b̄ Kīt̄Z̄ n̄t̄ē R̄v̄Z̄x̄q̄ Av̄k̄ Ī j̄ t̄q̄ D̄īx̄B̄ m̄v̄ḡM̄K̄ R̄v̄Z̄x̄q̄ cwi Kí b̄vi Āw̄ēt̄"Q̄" Ask̄ 𐌿n̄t̄m̄t̄ē|
2. t̄h̄ t̄K̄vb̄ mḡq̄K̄v̄t̄j̄ ī Rb̄ R̄v̄Z̄x̄q̄ 𐌿𐌺𐌹 j̄ q̄ t̄K̄ m̄v̄ḡt̄b̄ t̄īt̄LB̄ 𐌿𐌺𐌹 cwi Kí bv c̄Ń̄q̄b̄ Kīt̄Z̄ n̄t̄ē| Gt̄Z̄ R̄v̄Z̄x̄q̄ R̄b̄m̄úþ̄ī cūqv̄R̄b̄ t̄ḡŪv̄t̄b̄v̄ Q̄v̄ov̄l̄ 𐌿𐌺𐌹 m̄v̄v̄t̄h̄ ḡv̄b̄t̄j̄ ī ḡv̄t̄S̄ K̄v̄w̄LZ̄ ḡj̄-t̄eva, m̄v̄ḡw̄RK̄ 𐌿w̄f̄iᚦ̄ Ī D̄r̄m̄v̄n̄ m̄īþ̄ī K̄v̄ ḡt̄b̄ īv̄L̄t̄Z̄ n̄t̄ē|



փ՛ Ae GWԶKkb

19. ևկՂևԷK h\_vh\_fite , iaz; AvԷivc KԷi RvZxq A\_ՊԵՆԶK cւի Kի bւզ ևկՂևի Rb՝ msMZ e՛q eivի Kի՛Z nԷ|
20. RbMԷYi gvԷS DbqbgԼx gԷbvfive mւճի Rb՝ Ges ևկՂևի ՝ա՛Z I , YMZ DrKI© mvaԷbi Rb՝ MYcԹvi gva՛tgi (msev՝cĪ, tiւււI, tUuj wFkb, Pj wPĪ) mrvnԷh՝ e՛vcK KգԹւP tbqvi e՛e՛v ևկՂև cւի Kի bւզ ivLv cճqւRb|



### **cւԷVvԷi gj՝ւզb: 1.2**

#### **A) eււbeԹbx cԷԹ**

mււK DԷi ւե՛՛R gj-K AՂիււԷK eԷււզZ Kiab| (D՝vniY: Avcbvi ւbeԹPZ DԷiււ ՕKՕ ntj GԷK (K) eԷււզZ Kiab)

- 1| eZԳւb ւեկ! AԷbKււ  
 K. cԷի՞ ւեբԹ mgւԷR cւի YZ nԷqԷQ  
 L. cԷի՞ nxb mgւԷR cւի YZ nԷqԷQ  
 M. cյԷbւ cԷի՞ ւեբԹ mgւԷR cւի YZ nԷqԷQ  
 N. Avav cԷի՞ ւեբԹ mgւԷR cւի YZ nԷqԷQ|
- 2| ևկՂև cւի Kի bւ cճg chԷq  
 K. ևկՂևի DԷi՛k՝vej x mյԷւ ՅԷfite msAււզZ Kiv nq  
 L. ևկՂևի ւKՕyԷււZ ւbaԹ Y Kiv nq  
 M. ևկՂև cճZօvb ՝vcb Kiv nq  
 N. ևկՂևի Rb՝ A\_Էeivի Kiv nq|
- 3| ևկՂև cւի Kի bւ  
 K. gj-bււZ Օvov iւPZ nq  
 L. mԷւ՝ ւեւեԷqւM e՛ZxZ iւPZ nq  
 M. KZK , Էj v gj-bււZi Dci wԷւԷ KԷi iւPZ nq  
 N. cւի Kի bւ e՛ZxZ iւPZ nq|

#### **Av) msւԷԹ DԷi cԷԹ**

1. ևկ ևկ Kvi ԷY ևկՂև cւի Kի bւ cճqԷbi cճqւRb nq ւj LԷ|
2. ՝Էi vbԷ Է՛ kmgԷ ևկՂև cւի Kի bւi , iaz; I cճqւRbxqZv mԷւԷK©ււ, Gg, BDmԷԷ e՛e՛ււ ևկ?
3. ՕճևկՂև cւի Kի bւ ntj v GK tmU ւm×ւԷՏի mgւււi Օճ e՛vL՝v Kiab|
4. ևկՂև cւի Kի bւզ j Ղ՝ււԷԳԼxZv mԷւԷKճj LԷ|

#### **B) iPbւզj-K cԷԹ**

1. ևկՂև cւի Kի bւi cճqւRbxqZv I ՝eւկօ՛vej xi ւeei Y ւ՛ b|
2. ևկՂև cւի Kի bւi gj-bււZmgԷni DԷj և Kiab|

mււK DԷi: A) 1| K    2| L    3| M

**cW 1.3**

**uk`qv cwi Kí bvi avc, Kih`ej x Ges tkYx uefM**

**Dfík`**

GB cW tk`l Avcub-

- uk`qv cwi Kí bvi cávb Dcv`vb, tj vi bvg ej tZ cvi`teb
- uk`qv cwi Kí bvi avc, tj vi msw`fjB cwi wPZ weeZ Ki tZ cvi`teb
- uk`qv cwi Kí bvi Kih`ej x avivevwnKfvte eY`v Ki tZ cvi`teb|

**uk`qv cwi Kí bvi cávb Dcv`vbmgn-**

uk`qv cwi Kí bvmn th tKvb ai`tbi cwi Kí bv c`vqb I ev`évbqbc`m`uq meRbxb Pvi wU Dcv`vb \_v`K| uk`qv cwi Kí bvq GB Pvi wU Dcv`v`tbi msw`fjB cwi wPwZ ub`t`æDc`v`cb Kiv nj:

**(1) uk`qv cwi Kí bv c`vqb:** GUv n`jv cwi Kí bvi m`vavi Y A½, tj vi uk`t`ivbvg, Ae`vb, KZ`e`q (gšYvj q/ms`v), ev`évbqKvix ms`v, ev`évbqKvj, Rbej, A\_©, c`k`qY, hšc`wZ BZ`w` ubi`fY|

**(2) cwi Kí bv ev`évbq:** cwi Kí bv ev`évbq`bi Avdm ubg`fY, Rbej ub`t`qvM, Avmevec`I msM`h, ev`évbq `li ubi`fY BZ`w`

**(3) cwi Kí bv ev`évbq ubqšY:** cwi Kí bv ev`évbqKv`tj wef`b`æav`t`ci I wef`v`t`Mi Kih`w` i g`ta` c`k`v`m`ub`K, Avw` R BZ`w` w` t`Ki ubqšY Kivi e`e`v M`h`t`Y D`t`v`M M`h`Y Ki tZ nq|

**(4) c`v`te`b c`v`qb:** cwi Kí bvi wef`b`æKih`w` i AM`wZ m`áut`K`c`v`Z ch`f`q ev` uba`w`i Z mgq AvZ`m`wšj ci mvg`w`K Ges mgv`bi ci Ppv`š`c`v`te`b c`v`qb Ki tZ nq|

**cwi Kí bvi avcmgn-**

GLv`tb uk`qv cwi Kí bv c`v`q`t`bi c`t`q`c, tj v Av`t`j`v`KcvZ Kiv nj | uk`qv cwi Kí bv c`v`qbKv`tj ub`t`æ avc, tj v Abv`yZ nq|

**c`v`gZ:** uk`qv cwi Kí bv RvZ`xq Av`k`l j`t`q`i w`f`w`É`Z c`v`xZ mvg`w`M`K RvZ`xq Dbq`b c`k`t`i Avet`Q` Ask|

**w`Z`xqZ:** uk`qvMZ j`q`mgn c`k`v`k Ki tZ nte i`aycwi Kí bvi e`MZ j`t`q`i w`nt`m`te bq eis mgM`RvZ`xq Dbq`t`bi eZ`g`vb Ae`vi cwi eZ`f`bi gvc`Kv`w`t`Z|

**ZZ`xqZ:** t`t`ki mvg`w`RK I A\_`f`w`ZK Dbq`t`b `q Rbk`w`i c`q`v`RbxqZvi mvt` msM`wZ t`t`L uk`qv cwi Kí bv Ki tZ nte| G`t`z m`áut` eiv`i uk`qvMZ I e`MZ weub`t`qv`t`Mi Z`j`bvq Kg nte bv|

**cwi Kí bvi avivevwnK Kih`ej x**





GQivov cwi Kí bvi Acivci tkYx wefv, tju nj: (1) tk`ifZ Ges (2) wekK`ifZ cwi Kí bvi | eZgvtb wekji tKvb tKvb t`k g'vfm Ges gvBfm cwi Kí bvi Kti \_vtK| wekji th me t`tk tdWvtij miKvi itqtQ thgb- fviZ, cwiK`vb, h'ivó' BZ`w` | tm me t`tk `vbxq | AvÁuj K cwi Kí bvi Kti \_vtK|



### civVvEi gj`vqb: 1.3

#### A) eú ubePbx ckae

mivK DËi ubt`R gj-K AqiuutK eEivqZ Kiab | (D`vniY: Aivbvi ubePZ DËi uú OKÓ ntj GtK  eEivqZ Kiab)

1/ ukqv cwi Kí bvi c'vqb KquU avtci gva`tg AMñi nq?

K. c'vU

L. Pvi uU

M. vZbuU

N. `buU |

2/ cwi Kí bvi c'vqb | ev`evqtb KquU Dcv`vb itqtQ?

K. QquU

L. c'vU

M. Pvi uU

N. vZbuU |

3/ tQuU tQuU c'Kí wfiEK MpxZ cwi Kí bvi K

K. ch'q wfiEK cwi Kí bvi etj

L. tgqv` wfiEK cwi Kí bvi etj

M. `i wfiEK cwi Kí bvi etj

N. Dc-cwi Kí bvi etj |

#### Av) msvvB DËi ckae

1. cwi Kí bvi c'vqb | ev`evqtb i Rb` th Pvi uU Dcv`vb itqtQ Zb#a` `buU Dcv`vb msvvBfvte vj Lj |

2. cwi Kí bvi c'vb tkYwefvM ubt`R Kiab |

3. Dc-cwi Kí bvi e`vL`v vj Lj |

#### B) iPbvj-K ckae

1/ cwi Kí bvi avivvnnK kvh'ej xi weeiY w`b |

mivK DËi:

A) 1/ M 2/ M 3/ N

**cw 1.4**

**v'vfbat'kYxi cwi Kí bvi cwi vPvZ**

### Dᄃk

GB cW ᄃᄃI AvCib-

- chᄃᄃ wfiĒK cwi Kí bv weeZ KiᄃZ cviᄃeb
- tgqv` wfiĒK cwi Kí bvi msuᄃB cwi wPwZ eYᄃv KiᄃZ cviᄃeb
- ÷<sup>3</sup>vUwRK cwi Kí bv wK Zvi weeiY wᄃZ cviᄃeb
- ᄃli wfiĒK cwi Kí bv wK Zv ejᄃZ cviᄃeb|

### chᄃᄃ wfiĒK cwi Kí bv

chᄃᄃ wfiĒK cwi Kí bv wZbfvᄃM weF<sup>3</sup>:

1| **RvZxq chᄃᄃ cwi Kí bv:** ᄃK> ᄃqfivᄃe RvZxq chᄃᄃ G cwi Kí bv Kiv nq| Avgvᄃ` i cĀ ewl R cwi Kí bv, ᄃjv RvZxq chᄃᄃ cwi Kí bv| G cwi Kí bv RvZi mvgwMĀ Pwv`vi wfiĒZ Kiv nq| ᄃᄃki me, ᄃjv tmᄃi thgb- Kul, wKᄃv, wKí, ewYR, cĀZi ᄃᄃv BZ`w me wKQᄃ GB cwi Kí bvi weᄃPbvq Avᄃm| RvZxqfivᄃe j ᄃᄃ I Dᄃk` wbiᄃY Kᄃi cwi Kí bvi wewfbae`li cvi Kᄃi G, ᄃjv ev`évbqKiv nq| cĀZ`K tmᄃii AᄃbK, ᄃjv ᄃcĀMᄃg `vᄃK| cĀZ`KwUi Avl Zvaxb AᄃbK cĀKí MᄃY Kᄃi ᄃᄃki mᄃúᄃ`i mvinᄃh` A\_ev ᄃᄃki mᄃúᄃ`i mivᄃ\_ weᄃ`kx mvinᄃh` wᄃᄃq G cĀKí, ᄃjv ev`évbqKiv nq| cĀZ`KwU cĀKᄃi i j ᄃᄃ I Dᄃk` RvZxq cwi Kí bvi mivᄃ\_ mvgĀm`cYᄃᄃZ nᄃe|

2| **ga` chᄃᄃ cwi Kí bv:** GB chᄃᄃ cwi Kí bvi cwi mi GKUzᄃQvU| thgb wefivMxq ev cĀ`wK chᄃᄃ G cwi Kí bv MᄃY Kiv nq| Zᄃe G chᄃᄃ cwi Kí bvi cĀwZ, cĀqb, ev`évbq| gj`vqb c×wZ RvZxq chᄃᄃ cwi Kí bvi gZ| G, ᄃjvi j ᄃᄃ I Dᄃk` RvZxq chᄃᄃ cwi Kí bvi mivᄃ\_ mᄃwZcYᄃ

3| **ᄃvbq chᄃᄃ cwi Kí bv:** ga` chᄃᄃ cwi Kí bviᄃK wefivRb Kᄃi ᄃvbq cĀqvRᄃbi wfiĒZ ᄃQvU ᄃQvU cwi Kí bviᄃ ifc`vb Kiv nq| ga` chᄃᄃ cwi Kí bvi i×wZb×wZi AvᄃjvᄃK G, ᄃjv KvᄃRi Kiv nq|

ga` I ᄃvbq chᄃᄃ cwi Kí bviᄃ RvZxq j ᄃᄃ I AvKv•Lv cĀYi Rb` ᄃK> ᄃq n`ᄃᄃc AᄃbK mgq Acwivᄃhᄃᄃᄃᄃ cᄃo| `ᄃᄃ gvbe mᄃúᄃ`i Afivᄃe AᄃbK mgq gvbe mᄃúᄃ`i fivY AcPq NᄃU| AᄃbK mgq ZYgj- chᄃᄃ Kᄃᄃᄃ mgm`v wPwZ Kᄃi Zvi mgvavᄃb mᄃᄃᄃ nq bv| Avei ᄃKiv ᄃKiv mgq cwi Kí bv mᄃúᄃ`KᄃwKᄃᄃ i mᄃPZbZv, ZĒᄃᄃ I e`enwii K Ávᄃbi Afive `vᄃK| ᄃKiv ᄃKiv mgq wᄃ`ᄃZvi `iab Kᄃᄃ`i gᄃa` gUᄃᄃfKᄃbi Afive ᄃ`Lv hvq| hvi dᄃj cwi Kí bv KwᄃLZ dj cĀvᄃb e`\_ᄃᄃq|

### tgqv` wfiĒK cwi Kí bv

tgqvᄃ` i wfiĒZ cwi Kí bv wZb cĀvi-





### **cvṽVĒi gj`vqb: 1.4**

#### **A) eúibePbx cĕæ**

mṽWK DĒi ṽṽ`R gj-K AṽiṽUṽK eṽvṽZ Kiab | (D`vniY: Avcbvi ṽbeṽPZ DĒiṽU ŐKŐ ntj GṽK (K) eṽvṽZ Kiab)

1. RṽZi mṽgṽMṽ Pṽn`vi ṽṽṽṽZ ṽKṽb cṽi Kí bṽ Kiv nq  
 K. ṽṽ tgqv`x cṽi Kí bṽ  
 L. cĀevṽṽ R cṽi Kí bṽ  
 M. `xNṽṽṽṽ`x cṽi Kí bṽ  
 N. ṽṽevṽṽ R cṽi Kí bṽ |
2. ÷ṽṽUṽRK cṽi Kí bṽi gj-`evkó` ṽKṽbṽU?  
 K. mṽṽavRbK ÷ṽṽUṽR MṽY Kiv  
 L. KgṽṽṽṽZṽ teṽk  
 M. KgṽṽZṽṽ i mṽṽav gZ ÷ṽṽUṽR MṽY Kiv  
 N. cṽṽṽṽṽṽ |

#### **Av) msṽṽB DĒi cĕæ**

1. ṽṽ tgqv`x cṽi Kí bṽ ṽKb MṽY Kiv hvq?
2. `xNṽṽṽṽ`x cṽi Kí bṽi cṽṽṽRbṽqZṽ ṽK?
3. ga`ṽṽṽṽ`x cṽi Kí bṽ teṽk MṽYṽṽṽM` ṽKb?

#### **B) iPhṽgj-K cĕæ**

1. chṽṽ ṽṽṽṽK cṽi Kí bṽ Avṽj vPbv Kiab |
2. ṽṽṽṽṽṽṽṽṽ`x cṽi Kí bṽi `evkó` ṽṽṽ vi ṽṽṽṽ ṽṽṽ |

**mṽWK DĒi:**

**A) 1/ L 2/ L**

**cW 1.5**

**AvĀuj K cwi Kí bv Ges weifbæcwi Kí bvi Avštm=úK©**

**Dfík**

GB cW tkfI Avcwb-

- AvĀuj K cwi Kí bv tKb Kiv `i Kvi Zv weeZ Ki tZ cvi tēb
- AvĀuj K cwi Kí bv cŶqtbi weifbæfKškj Avtj vPbv Ki tZ cvi tēb
- weifbæcwi Kí bvi Avštm=úK©eYŕv Ki tZ cvi tēb|

**AvĀuj K ukŕv cwi Kí bv**

RvZxq ukŕv cwi Kí bv mvari YZ tK>`xq mi Kvi MŕY Kti \_vtK| A\_ŕmzi b'vq ukŕv tŕtĪ t`tki weifbæAĀj, tRjv cŕwzi gvŕS mvari YZ `elg` cwi j vŕZ nŕq \_vtK| evsj vt`tki cĀg cĀemlŔ cwi Kí bvq (1997-2002) t`tki DĒivĀtj I creZ© GjvKvq ukŕvi cŕvrc`Zv we`gvb \_vKvi K\_v mŕúofvte `xKvi Kiv nŕqtQ| Gme cŕvrc`Zv `ixKi tYi j tŕĪ AvĀuj K I creZ` GjvKv wŕwĒK ukŕvq mgZv Avbqtbi Dci \_iæzi Avtvc Kiv nŕqtQ| Gfvte t`tki weifbæAĀtji ukŕvi `elg`\_tjv (Disparities) `ixKi tYi gva`tg t`tk e`vcK A\_ŕmzk cŕw ARŔ Kiv mæe nŕq DfV| t`tki weifbæAĀtji gvŕS we`gvb ukŕvi `elg` `ixfZ Kivi Rb` A\_ev tKvb AĀtji ukŕvtK Gwŕtq wbtq hvlqvi Rb` th cwi Kí bv MŕY Kiv nq, ZvtK AvĀuj K ukŕv cwi Kí bv ejv nq| GKbfvte ukŕvi Rb` tRjvl qvix, \_vbl qvix cwi Kí bv cŶqb Kiv th tZ cvi tē| ukŕvi tŕtĪ AvĀuj K cwi Kí bv cŶqtbi cŕ\_ KZK\_tjv evav itqtQ| evav\_tjv nj :

**AvĀuj K cwi Kí bvi evav**

1. tK>`xq cwi Kí bvi Zŕbvq AvĀuj K cwi Kí bvi Rb` cŕqvRbxq cwi msL'vb, `ŕ wefklĀ cŕwzi Afve cwi j vŕZ nq|
2. AvĀuj K cwi Kí bvi Rb` mæúf`i AcŕZŕZv t`Lv t`q|
3. tKD tKD AvĀuj K ukŕv cwi Kí bv avivYwUŕK wBQK HwZnmK Ges migvqK Drmn etj AeĀv Ktib|

AvĀuj K ukŕv cwi Kí bv `ŕvte cŶqb I ev`evqb Kiv th tZ cvi tē|

**cŕgZ:** tK>`xq cwi Kí bvq ukŕvi Rb` th j ŕĪ I Dfík` wbaŕi Z nŕq \_vtK Zv weifbæ AĀtji `elg`, ukŕvi AeKvVtgvMZ cwi tek cŕwz. wefepbvq ti tL GjvKvMZfvte weZi Y Kiv th tZ cvi tē| GKbfvte cŕZwU GjvKvi Rb` Avw\_Ŕ I Ab`vb` mæú` weZi Y nŕZ cvi tē| G aitbi ukŕv cwi Kí bv tK Daŕ`t`\_tK wbgŕjx (Tops-down Approach) AvĀuj K cwi Kí bv ejv nq|

**wZxqZ:** tKvb AĀtji ceŕZx©Qimŕni ukŕvi MwZcKwZ, ukŕv cwi Kí bv ev`evqtbivi, AeKvVtgvMZ mŕhM-mŕeav cŕwz. wefepbvq ti tL AvĀuj K cwi Kí bv cŶqb Kiv

thtZ cvti | GB cwi Kí bvtK cieZxPZ t`tki mvgwMk ukᄡv cwi Kí bvi mvt\_ mvgAm` wearb KitZ nte | Gtᄡᄡt AvÁwj K ukᄡv cwi Kí bvi cŷqbKvtj miKvix Dt`vtMi cikvcnwK temiKvix Dt`Mtki wetePbvq ivLtz nte | Gaitbi AvÁwj K ukᄡv cwi Kí bvtK wbgæt`K Daŷgŷx (Bottom-up Approach) AvÁwj K ukᄡv cwi Kí bvi wntmte bvgKi Y Kiv thtZ cvti |

AvÁwj K ukᄡv cwi Kí bvtq cŷZ`K AÁtj i ukᄡvi Rb` AeKvvtgvmZ mthvM mŷeav , iazj mnKvti wetePbvq ivLtz nte | ZvOvov AvÁwj K `eltg`i cikvcnwK RvZxq j ᄡ` I Av`k, ukᄡvi , YMZgvb, ukᄡK I ukᄡv\_xP cŷZ`Zv, AvÁwj K miKvix I temiKvix mæú` mgvteŷki mæte`Zv cŷwZtK , iazj `vb KitZ nte | GmKj welq wetePbvq titL tKvb AÁtj i ukᄡvi Rb` A\_ŷn I KvhRi cwi Kí bvi cŷqb Kiv thtZ cvti |

**wefbocwi Kí bvi AvstmaúK©**

evsj vt`tk tK`ifZ (Centralised) A\_ŷwZK cwi Kí bvi cŷvZ ntq \_vtK | ukS`me mgq tK`ifZ cwi Kí bvi mvgwRK I A\_ŷwZK Dbqtb KvhRi mŷj etq AvbtZ cvti bvl tm Kvi tY A\_ŷwZtZ weteK`ifZ (Decentralised) cwi Kí bvi K\_v tKvb tKvb tj LK Dtj - L KtitQb | G chŷq tK`ifZ Ges weteK`ifZ (Decentralised) cwi Kí bvi Ges gvvtm (Macro) I gvvtm (Micro) cwi Kí bvi mæútkAvtj vPbv Kiv nte |

tK`ifZ cwi Kí bvi ntjv Ggb GKw cwi Kí bvi cŷmqu hv tK`iq ev RvZxq chŷq MpxZ ntq \_vtK | G aitbi cwi Kí bvtq AvÁwj K (wefvMxq, tRj vl qvix, \_vvl qvix ev Mŷg chŷq chŷ) cwi Kí bvi cŷtebv, wefbocj ᄡ, mæú` cŷwZ. Dtj L \_vKtZ cvti | ukS`Zv mtEj Bnv ntjv tK`ifZ cwi Kí bvi |

weteK`ifZ cwi Kí bvi: Bnv Ggb GK aitbi cwi Kí bvi cŷmqu hv weteK`ifZfvte cŷvZ nq Ges GB cŷmquq cwi Kí bvi wefbocBDwU (Unit) AskMhŷ Kti \_vtK | Gtᄡᄡt tKvb wefvMxq ev tRjv KZᄡᄡ tK`iq cwi Kí bvi KZᄡᄡ t`tk cwi Kí bvi bmxZ welqK wbt`Rvej x Ges mvari Y Dtík`vej x tctq \_vtK | G aitbi cwi Kí bvi wefvMxq ev tRjv chŷq cŷqb Kiv ntq \_vtK | ZEMZfvte Gwv mæe th wefvM, tRjv, AvÁwj K cŷwZ. ms`v, tj vi cŷvZ cwi Kí bvi RvZxq cwi Kí bvtq GKxfZ Kiv nq Ges Bnv RvZxq cwi Kí bvi KZᄡᄡ Abtgv`bmn cŷvi Kti \_vtK | Gtᄡᄡt RvZxq cwi Kí bvi KZᄡᄡ Abtgv`b \_vKtj I Gaitbi cwi Kí bvtK weteK`ifZ cwi Kí bvi ejv nq |

**gvvtm cwi Kí bvi**

tK`ifZ I weteK`ifZ cwi Kí bvtK AtbK mgq h\_vmtg gvvtm Ges gvvtm cwi Kí bvi mvt\_ GK Kti t`Lv nq | ukS` Gwv mwK bq | D`vni Y`ŷc ejv hvq th, cŷ`k chŷq tdWvtij cwi Kí bvi Kvvtgv \_vKtj tm cwi Kí bvi weteK`ifZ cwi Kí bvi ntZ cvti ukS`Zv mtEj Gwv GKw gvvtm cwi Kí bvi | gvvtm cwi Kí bvi , iazcŷeukó`nj th, cwi Kí bvi BDwU Ggb chŷq chŷwZ`ntZ cvti hvi wbtP cwi Kí bvi Avi tKvb wvtK \_vKvi gZ (Viable) BDwU Mvb Kiv hvq bvl A\_ŷ gvvtm cwi Kí bvi ntjv wefcᄡv tQvU wvtK \_vKvi gZ (Viable) cwi Kí bvi BDwU | Gtᄡᄡt GKw cwi Kí bvi BDwU Rb` thme aitbi Dcv`vb \_vKtZ nq, Zvt`i mæútkŷek`fvte Rvvi cŷqvRb itqtQ | thgb Mŷg cwi Kí bvi

**gvvtm cwi Kí bvi**





mivvth" ev-évbKti \_vtK| GtZ ᚦvbq m-úᚦ`i Drm,tjvtK wPwZ Kiv nq| gvBtμv  
cwi Kíbvq AAj chq Dbqᚦbi wewfbæKgmPᚦ ev-évbᚦbi cōZ Awak ,iæZ Avtvc  
KtZ nq| evsjvᚦ`tk wkᚦvi tᚦᚦᚦ gvBtμv cwi Kíbvri Rb" tRjv ev \_vbr chqᚦK  
wetePbv Kiv thtZ cvᚦi | KviY wkᚦv Dbqᚦ cwi Kíbvri KgmP,tjv miKvi KZᚦ cōxZ  
ntq \_vtK| wkᚦv tᚦᚦᚦ gvBtμv cwi Kíbvri gj- Kvr nte miKvi KZᚦ cōxZ  
KgmP,tjvtK miKvix Ges temiKvix m-ú` mgvteᚦki gva"tg ev-évbqZ Kiv| thtZ  
evsjvᚦ`tki wkᚦv cwi Kíbvri tᚦᚦᚦ gvBtμv cwi Kíbvri tKvb aviYv mᚦó nqub tmtnZzK  
aitbi cōvmbK GjvKvq gvBtμv cwi Kíbv cōqb I ev-évbKiv thtZ cvᚦi Zv  
wkᚦve` , cwi Kíbvme` Ges mgvRweÁvbxᚦ`i ths\_ cōPóvq wewfbæcixᚦv wbxᚦvi gva"tg  
wbaᚦi Z ntZ cvᚦi |



### cvᚦVēi gj"vqb: 1.5

#### A) eúbePbx cōæ

mivK Dēi wᚦ`R gj-K AᚦiWtK eᚦvqZ Kiab| (D`vniY: Avcbvi wbePZ DēiW ŪKŪ  
ntj GᚦK (K) eᚦvqZ Kiab)

- 1| wkᚦvtᚦᚦᚦ AvÁij K`elg" ᚦ-Kitj  
K. AvÁij K`elg" ewx cvq  
L. A\_ᚦwZK cōwx ARᚦ m-é nq  
M. wkᚦv cwi Kíbv ev-évbqZ nq  
N. `ᚦ wkᚦK cvl qv hvq|

- 2| tK>`iqvte wkᚦvi j ᚦᚦ" I Dᚦí k" wbaᚦi Z ntq wewfbæGjvKvq weZiY Kiv ntj  
GUᚦK  
K. avcl qvix cwi Kíbv etj  
L. `xNᚦgqv`x cwi Kíbv etj  
M. Daᚦᚦ\_ᚦK wbgᚦᚦᚦ (Tops-down Approach) AvÁij K cwi Kíbv etj  
N. wbgᚦ\_ᚦK Daᚦᚦᚦᚦ (Bottom-up Approach) AvÁij K cwi Kíbv etj |

- 3| tK>`ᚦZ cwi Kíbv cōqb Kiv nq  
K. Mōg chq  
L. \_vbr chq  
M. tRjv chq  
N. RvZiq chq|

**A) msuflB DEi ckae**

1. tK>`xfZ cwi Kí bvi msÁv ij Lb|
2. weK>`xfZ cwi Kí bvi wk enStq ij Lb|
3. Daí<sup>o</sup>t\_#K wbgqlyx (Tops-down Approach) AvÁij K wkflv cwi Kí bvi KvK etj ?
4. wbgat\_#K Daí<sup>o</sup>lyx (Bottom-up Approach) AvÁij K wkflv cwi Kí bvi KvK etj enStq ij Lb|
5. gv<sup>t</sup>μv I gvB<sup>t</sup>μv cwi Kí bvi m<sup>u</sup>tK<sup>e</sup>enStq ij Lb|

**B) iPhvj-K ckae**

1. AvÁij K wkflv cwi Kí bvi KvK etj ? AvÁij K wkflv cwi Kí bvi cVqtbi ct\_ thme evav iqtQ Zvi D<sup>t</sup>j L Kiab| AvÁij K wkflv cwi Kí bvi KZfvte cVqb Kiv hvq?
2. Avcbvi gtZ evsj v`tki tRjv I \_vbr ch<sup>q</sup> wkflvi gvB<sup>t</sup>μv cwi Kí bvi cVqb Ki<sup>t</sup>Z ntj wk ai<sup>t</sup>bi kZv<sup>o</sup> ctY Ki<sup>t</sup>Z nte Avtj vPbv Kiab|

**mWK DEi: A) 1| L 2| M**

**References:**

1. G. Smirnov and others: Plannig in developing countries: Theory and methodology. UNITAR, Progress Publishers, Moscow, USSR, 1979
2. Fremount J. Lyden and Ernest G. Miller Plannig, Programming, Budgeting: A systems approach to management, Markham publishing Company, Chicago, USA. 1970.
3. Laxmi Devi and others: Encyclopaedia of Educational development and Planning Vol- 3, 4, 5. Anmol Publishing (Pvt) Ltd. NEW DELHI-110002, INDIA.
4. C.S. Nagpal and others: Perspectives in Modern Economics, VOL-15, Anmol Publication, New Delhi, 110002, INDIA, 1972.
5. Jandhiyala B.G.TILAK: Educational Planning at grass roots, Ashish Publishing house 8/81 Panjabi bagh, New Delhi-110026, INDIA.

evsj vq`tki ukvqvi th cwi Kiv bv eZqvib cVvZ ntq \_vqK Zv maviYZ Rivxq cwi Kiv bv Kvgkqbi gva`tgB ntq \_vqK| ukvqv cwi Kiv bv eZqvib th chq Ae`vb Kiv Q Zvi GKUv AZxZ BvZnm itqQ| eZqvib ukvqv cwi Kiv bv mej Zv Ges `qv Zv `tUvB itqQ| AvRtki ukvqv I Gi cwi Kiv bv mquK`Avtj vKcvZ Kivi cte`Gi HivZnumK cUfvg mquK`AvbRb Kiv cUqvRb| G chq ukvqv cwi Kiv bv K bquU cvv vef<sup>3</sup> Kiv ntqQ| GB cvv, tj v nt`Q:

cvV 2.1: evUk ce`evsj vq`tki ukvqv cwi Kiv bv

cvV 2.2: evUk kvmbvgtj evsj vq`tki ukvqv cwi Kiv bv

cvV 2.3: cwiK`vb kvmbvgtj evsj vq`tki ukvqv cwi Kiv bv

cvV 2.4: `vaxb evsj vq`tki ukvqv cwi Kiv bv (1972-1978)

cvV 2.5: evsj vq`tki ukvqv cwi Kiv bv (1980-1985)

cvV 2.6: evsj vq`tki ZZxq cAevml R ukvqv cwi Kiv bv

cvV 2.7: evsj vq`tki PZZ`cAevml R ukvqv cwi Kiv bv

cvV 2.8: evsj vq`tki cAg cAevml R ukvqv cwi Kiv bv

cvV 2.9: kvgmj nK ukvqv Kvgkb vi tcvU<sup>9</sup> ukvqv cwi Kiv bv





fvi Zxq mwnfZ`i cbyæ/æeb I Dbq; (2) cuŪZemPK Drmn `vb Ges (3) Ávb weÁv`bi Dbq; m`ab | uKŠ`Df`i k` , t j v ev`evq`bi m`b`w` 0 cŪ`febv bv `vKvq ubt`gæ Pvi uŪ welfq e`vck gZme`iva m`w` nq |

**gZ me`ivtai Kvi Ymgn`**

1 | **uKŪvi Df`i k`** **iba`Y:** fvi ZeŪl P t j v k f` i uKvŪZ Kiv, bvnK cvŵvZ` Ávb weÁv`bi we`li Kiv A`ev tKv`úvbx i Aaxtb ubt`gæ c` , t j v fZ ubt`qivM cvl qvi thvM`Zv m`úbe fvi Zxq uKvŪZ RbMY m`w` Kiv, Gme cŪkæZK`m`w` nq |

2 | **uKŪvqZb , t j vi cui Kí bvi `uqZ;** GK`j uKŪme`i g`fZ fvi Zxq RbM`Yi ōv iv cui P`v j Z uKŪv cŪZŵvB `vK`te uKŪv e`e`v cui P`v j bvi `v`vq`fZij Ab`f`i g`fZ B`- BvŪqv tKv`úvbx me`'ij q cŪZŵv Kite Ges tKv`úvbx i ZĒjeavtb me`'ij q , t j v P`j te |

3 | **uKŪv we`li c`vZ:** G`fZ bvbv ai`fbi gZvgZ cui j uŪZ nq | Zb`a` wecivZ ai`fbi `ŵU gZvgZ t`Lv hvq | Zv nj :

K. tKv`úvbx uKŪyml`K fvi Zxq`K uKvŪZ Kite Ges GmKj uKvŪZ e`v<sup>3</sup> m`vavi Y gvb`y`K uKvŪZ Kite | Giv uKŪvq vba`lvq cui m`e`Y b`v`Zi (Theory of Downward Filtration in Education) cŪ<sup>3</sup>v |

L. tKv`úvbx g`v`tgq fvi Zxq gvb`y`K bq eis mgMŪ fvi ZeŪl P Rbmvavi Y`K uKŪv `v`bi Dci , iæ`j`vb Kite |

**mb` AvBb Kiv uŪvi uKŪv cui Kí bvi**

4 | **uKŪvi gva`g:** GK`j uKŪme` t`kxq fvlvi gva`g uKŪv`v`bi Dci , iæ`j`v`ic K`f`ib | Aci c`Ū Av`ex I ms`vZ. fvlv`K uKŪvi gva`g w`f`m`te Mŵ`f`Yi m`g`v`v`k K`f`ib | ZZxq c`Ū Bst`i`R fvlvi gva`g cvŵvZ` Ávb weÁv`bi c`h`v`f`i i Dci , iæ`j`v`ic K`f`ib |

Gme gZ cv`R` m`f`Ej | mb` AvBb Kiv uŪvi uKŪv cui Kí bvi hv m`st`h`v`Rb K`f`i Zv nj :

1. Kij KvZv gv`&v`v I tebv m ms`vZ. K`f`j`f`Ri c`b`M`ŵb;
2. 1824 m`f`j Kij KvZvq GKvU ms`vZ. K`f`j`R`v`cb;
3. AvMŪ I w`j`f`Z `ŵU cŪP` uKŪvi K`f`j`R`v`cb;
4. Av`ex I ms`vZ. fvlvq i`PZ c`y`Kmg`f`ni c`K`v`kbv I g`y`f`Yi e`e`v` Kiv;
5. Bst`i`R fvlvq i`PZ Ávb weÁv`bi c`y`Kmg`f`ni cŪP` fvlvq Ab`g`v` Kiv |

**v`g`k`b`v`i`f` i uKŪv cui Kí bvi**

fvi Zxq Dcgnv`f`k cZ`ŵ`R, Ij`v`R, divmx, w`f`bgv Bst`i`Rmn bvbv ai`fbi v`g`k`b`v`i`f` AvMgb N`f`U | v`g`k`b`v`i`f` i g`j`j`Ū fvi Zxq Dcgnv`f`k v`b`R v`b`R ag`c`ŵ`v`i Kiv | uKŠ` v`g`k`b`v`i`f` i Kiv R Kg`ag`c`ŵ`v`i Qvovl uKŪv`f`ŵ`f`i me`v`Z jvf K`f`i | uKŪv m`úv`K`Ū v`g`k`b`v`i`f` i v`p`qv`Kg`f`K`v`b m`v`g`v`M`K uKŪv cui Kí bvi gva`g mslMvZ nqiv | Zv m`f`Ej uKŪv t`ŵ`f`i Zv`i Ae`v`b`f`K ŵ`f`v`f`te m`úv`K`Ū Kivi t`K`v`b Ae`K`v`k tbB | fvi`f`Z v`g`k`b`v`i`f` i uKŪv m`úv`K`Ū Kiv , t j v nj :



3. t`tki meP c0\_ugK, gva`ugK I D`P uk`qv c0Z0vb c0Z0vi bmvZ tNvl Yv Kiv nq|  
 `z I Ktj tR tgavex uk`qv\_xP i e`E c0v`bi c0qvRbxqZvi K\_v `Kvi Kiv nq|  
 Pvj m`DW Gfite Z\_vKw\_Z 0ubgMvgx cwi meY ZtEj 0 qvuzKvi K `wofwz cwi nvi Kti  
 me`ti i RbMtYi uk`qvi Rb` mi Kvi x A\_`tqi bmvZ tNvl Yv Ktib|
4. miKvix Df`v`Mi cvkvcvk temiKvix uk`qv Df`v`M`K Drmn c0v`bi j`q`  
 kZmvtc`q mi Kvi x Ab`yb ev M0U-Bb-GBW t`qvi tNvl Yv t`qv nq|
5. mKj ch`qi we`vj`qi uk`qKt`i c0k`qY `v`bi Rb` uk`qK c0k`qY c0Z0vb  
 `v`c`bi c0`le tck Kiv nq|
6. wevfbaai`bi e`Egj-K uk`qv c0Z0vb c0Z0vi msKf e`3 Kiv nq|
7. uk`qv`q`f`I cv0vrc` g`v`j g I bvi x mgvR`K mn`thvM`Zvi Avk`m t`l qv nq|
8. fvi Zevmxi Rb` uk`qvi e`e`v Kiv miKviti cweT `v`qZ; un`tmte tNvl Yv t`l qv nq|
9. uk`qvi Rb` miKvix tKvlvMvi Qvovl evovZ Avtqi Drm un`tmte ugDvbvmc`v`j uU,  
 OvT`teZb Ges `vbkj t`kevmt`i vPvuz Kiv nq|

**M0U-Bb-GBW**

tWmc`v`Pi uk`qv mspvšf A`bK bmvZB KvhRi nqub| e`q e`xi e`vcv`ti miKvi mw`Qv  
 c0KvK Kiti I tWmc`v`Pi c0YZviv uk`qv m`u`hvi`Y c0qvRbxq A\_`cvi qv hvtebv etj  
 ubv0Z uQj b| ZvB Zvuv M0U-Bb-GBW Gi gva`tg uk`qvi Rb` temiKvix A\_`q`bi c0Z  
 Ges ugDvbvmc`v`j uU, OvT teZb I `vbkj e`w`t`i A\_`q`bi c0Z `iaZy`ivc Ktib|  
 uk`qv c0v`ti fvi Ziq ms`wZ. I Hvzn`K h\_vh\_fvte `iaZ; c0vb Kiv nqub| e`Egj-K  
 uk`qv`K h\_vh\_fvte `iaZ; bv t`l qv Gf`tk m`vaviY uk`qvi c0v`i n`q`Q AwaK| GtZ  
 uk`qv`Z teKvi m`pi c0YZv j`q`Yxq| GQvovl mekpe`vj q`K ubq`šY, c0k`vb I cix`qv  
 M0t`Yi g`a` m`gve`x t`i`L Gi uk`qv`v`bi e`vcK m`v`ev`v`K qvuzM0` Kiv n`q`Q| GZme  
 m`gve`xZv m`E`j tWmc`v`Pi m`z`wi k`\_t`j v`uQj AZxe gj`evb| Gi m`v`\_ gva`ugK I D`P  
 uk`qvi `az m`u`hviY NtU| GtZ temiKvix LvZ`K uk`qv m`u`hvi`Y AvM0v`S`Z I  
 DrmnvZ Kiv n`q`Q| Gme c0Z0v`b OvT`teZb Z`j`bv`j-Kfite Kg uQj Ges fivZP  
 ubqgKvblyl uk`v`\_j uQj | ZvB uk`qv n`q` Df`V Rbuc0| GtZB ubvuz i`q`Q tWmc`v`Pi  
 m`v`\_RZv|





**cW 2.2**

**ewuk kumbigtj eisj vt`tki ukvkv cwiKibv**

**Dfik`**

GB cW tkfI Avicb-

- ewuk fviZi cUg ukvkv Kvgktbi ukvkv cwiKibv mautK@ej tZ cvi teb;
- j WkvRfbi ukvkv ms`vi mspuvSicwiKibv mautK@vL`v Ki tZ cvi teb;
- m`vWj vi Kvgktbi ukvkv cwiKibv weeiY w`tZ cvi teb;
- mvtR@ ukvkv cwiKibv mautK@Y@v Ki tZ cvi teb|

**ewuk fviZi cUg ukvkv Kvgktbi ukvkv cwiKibv**

ewuk fviZi cUg ukvkv Kvgkb ntjv nvlvi Kvgkb (fviZiq ukvkv Kvgkb)| 1854 mtj tWmc`vPi ci 1882 mij chSicukvkv AMWZ cwi gvc Ges ukvkv mautK@ miKvix bmvZgijv chfj vPbvi Rb` nvlvi Kvgkb MWZ nq| nvlvi Kvgkb cU`vgK, gva`vgK I bvi x ukvkv mautK@GKvU cwiKibv clyq I tck Kfi | cwiKibv mzwik, tjv ubg@fc:

1. miKvixi cwi eZ` cU`vgK ukvkv Mto tZijvi `vqZ; RbmviY, tRjv I vgdvbm`vj tevW`Mig` BDvbq, cAvtqZ, cU`ukK miKvi BZ`wi i Dci `vKte|
2. we`vj tqi djvd tj i wfiEtZ Avv`R Abvib weZiY Kiv nte|
3. `vbxq RbMfYi `bwb Pvn`vi wfiEtZ ukvkv m g clyq tNvlYv t`lqv nq| cU`Z`K gnKgv chfj q Kgc t`q GKvU ukvkv cU`k`Y cU`Zovb cU`Zovi Dci `v i az`fivc Kiv nq|
4. cU`vgK we`vj qmgfni evrmwi K Li t`Pi GK ZZxqsk miKvi enb Ki te|
5. gva`vgK we`vj tq miKvix ubqS`Y, Df`vM mgk cU`vni Kfi temiKvix Df`vM tK DrmwnZ Kiv nte|
6. miKvix gva`vgK we`vj tqi ukvkv`x` i teZb temiKvix gva`vgK we`vj tqi Z`bvq tek Kivi mzwik Kiv nq|
7. temiKvix gva`vgK we`vj q, tj vt`K M@U-Bb-GBW cU`vi Aaxb Avbqfbi cwiKibv t`lqv nq|
8. mKj miKvix we`vj q tK ag`vbi t`c`q i vLvi Ges temiKvix we`vj q tK Zv` i B`QvgZ ag`vkv`vi AbgvZ `v tbi tNvlYv cU`vb Kiv nq|
9. gnv we`vj tqi KgPvix msL`v, `vbxq Pvn`v, ukvkv`v tbi `qZv cfiZ. hvPvB Kfi Avv`R mrvv`h`i cwi gvY vbi fct`Yi bmvZ tNvlYv Kiv nq|
10. bvi x ukvkv temiKvix cU`Pov tK DrmwnZ Kiv nq| bvi x ukvkv cU`Z, AbgvZ mautU vtqi tqt` i ukvkv, bvi x `x` cwi`kR vbtqvM `vb, bvi x`i Rb` mnR ukvkv m g Pij y Kivi mzwik Kiv nq|

**nvlvi Kvgktbi mzwik**



**gva`igK uk`ivi Rb`  
m`Wj v`i i cui K`i bv**

1. Kugk`bi gtZ mekpe`'ij q I gva`igK uk`ivi melq,`tjvi gta` B>UviugmWtqU ch`q n`tjv wefvRK| ZvB B>UviugmWtqU cix`iv cvkB mekpe`'ij tq fuz`P thvM`Zv `vb Kitz cvti |
2. miKvi B>UviugmWtqU Ktj R bvtg bZb aitbi uk`iv c`Zovb Mto tZvjvi cui K`i bv MhY Kite| G aitbi Ktj tR Kjv, veAvb, wPwKrmv, c`KSkj, uk`K c`k`Y c`fuz. Aa`q`bi m`hvm`vKte|
3. mekpe`'ij q, B>UviugmWtqU Ktj R, D`P we`'ij q I miKvix c`Zovb mgstq c`k,`tjvZ gva`igK I B>UviugmWtqU uk`iv cui Pvj bvi Rb` GKwU uk`iv tevW` c`ZovZ nte|
4. bvi v`i Rb` c`P`z I bvi uk`iv tevW`vctbi cui K`i bv tck Kiv nq|

**D`P uk`ivi Rb`  
m`Wj v`i i cui K`i bv**

mekpe`'ij q c`Zov Ges tKvj KvZv mekpe`'ij tqi Aaxtb Ktj R I uk`iv\_x`msL`v Awak nI qvi Kvi tY Kugkb tNvi Yv Kti th,

**c`lgZ:** Bsj `v`Ui A- t`dvw`I K`vgeR mekpe`'ij tqi b`vq Xivq GKwU GK tKw`K uk`iv vbKvix mekpe`'ij q (Unitary Teaching University) c`ZovZ nte| Guv nte GKwU AvemK mekpe`'ij q|

**wZxqZ:** tKvj KvZv kn`i i mg`l m`u` tK GKw`Z Kti tKvj KvZv mekpe`'ij q tK GKwU uk`iv vbKvix mekpe`'ij q wntmte c`ZovZ Kiv nte|

**ZZxqZ:** gd`j GjvKvi Ktj R,`tjvK Ggbvte Dbz Kitz nte hvZ axi axi D`P uk`ivi m`u` ,`tjv GKw`Z nte mekpe`'ij q tK`a`cui YZ nte cvti |

**PZzZ:** tgavex uk`iv\_x`i wbtq mekpe`'ij tq Abvm` tKvm`Pvj y Ges Kg tgavex uk`iv\_x`i Rb` cvm tKvm`vLvi c`veKiv nq|

**c`AgZ:** B>UviugmWtqU cvtki ci wmw`tKv`m`P tgqv` wZb eQi ivLvi c`veivLv nq|

**l`oZ:** uk`iv v`i t`i gvyj gvb`i c`vrc`Zvi K\_v wetePbvq ti tL gvyj gvb uk`iv\_x`i m`vqZvi Rb` m`e` c`t`c tbqvi cui K`i bv tck Kiv nq|

Kugkb Avi th mKj mel`q m`v`i k iv`L Zv nj :

**uk`K c`k`Y I  
Ab`v` t`i t`i  
m`Wj v`i i cui K`i bv**

**uk`K c`k`Y:** Xiv I tKvj KvZv mekpe`'ij tq c`k`Y wefvM Pvj y gva`tg c`k`Yc`B uk`itKi msL`v e`xi cui K`i bv tck Kti| B>UviugmWtqU I wmw` ch`q uk`ivZ`K uk`iv`tg A`f`i tNvi Yv c`vb Kti |

**KviMix I ch`y:** mekpe`'ij tqi uk`iv`tg KviMix I ch`y veAv`bi A`f` Ges G,`tjvi avemK cv tktl KZKv`uk`iv\_x`K w`cgv I wmw`c`v`bi cui K`i bv Kiv nq|

**tckMZ I e`Egj-Kuk`iv:** tckMZ I e`Egj-Kuk`ivi Dci Kugkb ,iaZ`ivc Kti| mekpe`'ij tqi ce`ti G uk`iv ev`bvqtb Kugkb cui K`i bv tck Kti |

**mvᄃRᄃ cwi Kí bv**

ᄃZxq nekᄃᄃi ci ewJk fviᄃzi Rb" GKiu ukᄃᄃ cwi Kí bv cᄃᄃb KivB ᄃQj mvᄃRᄃ cwi Kí bvi Dᄃᄃk" | mvᄃRᄃ cwi Kí bvq 1935 mvᄃj i ci tKᄃᄃ ukᄃᄃ Dcᄃᄃ óv tevᄃWᄃ MpxZ cᄃᄃᄃei mvᄃ\_ tLi Kugiu, I qvaᄃ cwi Kí bv, DW A'veU Kugiuᄃi mgwmi k\_ tᄃvi mgᄃᄃ mvaᄃbi tPón Kiv nᄃqᄃQ | mvᄃRᄃ cwi Kí bvq cᄃᄃᄃ ukᄃᄃ, eq\_ ukᄃᄃ, gvaᄃᄃ ukᄃᄃ, D"P ukᄃᄃ cᄃᄃzi Dci\_ iaZᄃivc Kiv nq | mvᄃRᄃ cwi Kí bvi cāvb`eikó`\_ tᄃv nj :

**mvᄃRᄃ cwi Kí bvi  
`eikó`mgᄃ**

1. GiU ᄃQj 40 eQᄃi i (1944-84) GKiu ukᄃᄃ cwi Kí bv |
2. GᄃZ ukᄃᄃ Rb" ewl R 3,126 ugij qb UvKv eᄃᄃᄃi j ᄃᄃᄃvᄃv ᄃbaᄃY Kiv nq |
3. `vbxq cwi tᄃᄃi mvᄃ\_ msMwZ i ᄃᄃ Kᄃi n`ᄃᄃᄃi Dci\_ iaZᄃi ᄃᄃ Kᄃi GᄃZ cᄃᄃᄃ ukᄃᄃᄃ evbqv` ukᄃᄃ cwi Kí bv Mᄃo tZij vi mgwmi k Kiv nq |
4. 3-6 eQᄃi i ᄃᄃᄃi Rb" A%ZubK bvmvᄃ ukᄃᄃ cwi Kí bv tck Kiv nq |
5. 6-14 eQᄃi i tQᄃj tᄃᄃᄃi Rb" A%ZubK I eva`Zvgj-K ukᄃᄃ cwi Kí bv Kiv nq |
6. 11-17 eQᄃi eᄃᄃi tQᄃj tᄃᄃᄃi gvaᄃᄃ ukᄃᄃ `vᄃbi cwi Kí bv Kiv nq |
7. gvaᄃᄃ we`vjᄃᄃ ukᄃᄃ\_ᄃᄃᄃᄃ nᄃe cᄃᄃ cᄃᄃᄃ ukᄃᄃ I tᄃavi wfiᄃᄃZ | tᄃavi wfiᄃᄃᄃ ᄃᄃᄃᄃ kZKiv 20 RbᄃK gvaᄃᄃ we`vjᄃᄃ covᄃᄃvbi mᄃᄃM t`I qv nᄃe |
8. ewij Kv we`vjᄃᄃ `Zᄃᄃ ukᄃᄃᄃᄃ ᄃᄃᄃᄃ | GᄃZ gvaᄃᄃ `ᄃi ukᄃᄃ gvaᄃᄃ nᄃe gvZfiv Ges Bᄃᄃi RᄃK ᄃZxq eva`Zvgj-K fiv ᄃᄃᄃᄃ ukᄃᄃ t`I qv nᄃe |
9. gvaᄃᄃ ukᄃᄃᄃ GKiu cYᄃᄃ ukᄃᄃ ᄃᄃᄃᄃ Mᄃo tZij vi cwi Kí bv MᄃY Kiv nq |
10. t`ᄃᄃi ᄃᄃᄃᄃ Ges ᄃᄃᄃi Pmn`vi cᄃZ j ᄃᄃ` tiᄃL Kvi Mix I ewᄃᄃ-Kukᄃᄃᄃ Dᄃᄃᄃi Rb" weᄃᄃᄃᄃ c`ᄃᄃᄃ MᄃᄃYi cwi Kí bv tᄃᄃᄃ |
11. gvaᄃᄃ ukᄃᄃᄃ i Rb" cᄃᄃᄃ I mÄexb tKvm`cᄃZᄃi Rb" mgwmi k Kiv nq |
12. th mKj ukᄃᄃ\_x`gvaᄃᄃ ukᄃᄃ mgvᄃ Kite Zᄃᄃi cᄃZ 15 Rᄃbi ᄃᄃᄃ GKRbᄃK tᄃav, thvM`Zv I Pmn`vi wfiᄃᄃᄃ nekᄃᄃ `vjᄃᄃ ukᄃᄃ `vᄃbi cwi Kí bv Kiv nq |
13. eq`ᄃ`i ᄃbi ᄃᄃi Zv`ᄃᄃᄃY cwi Kí bv tᄃᄃᄃ |
14. mvKvᄃi chᄃᄃ Mᄃel Yv cwi Pij bv Kivi cwi Kí bv tck Kiv nq |
15. RbMᄃYi Pmn`v gvndK nekᄃᄃ `vjᄃᄃ ukᄃᄃ cwi Kí bv cᄃᄃᄃ cᄃZ mvᄃRᄃ Kugiu\_ iaZᄃivc Kᄃi |
16. ukᄃᄃ Rb" ewl R 3126 ugij qb UvKv eᄃᄃᄃi th cwi Kí bv ᄃbaᄃY Kiv nq Zvi Drm mᄃᄃᄃᄃᄃ nq th, 356 ugij qb UvKv ev 11% (cᄃᄃ) cvl qv hᄃᄃ ukᄃᄃ\_x` i teZb I Ab`vb` Drm t\_ᄃK | Aeikó 2770 ugij qb UvKv ev 89% (cᄃᄃ) cvl qv hᄃᄃ RbMY t\_ᄃK cᄃᄃ mi Kvi x U`v\_ /Ki t\_ᄃK |

**mgvtj vPbv**

**nvUvi Kugkb:** nvUvi Kugkbi cwiKibvi wfiEtZ cUugK we`ij q vctb vbxq ms`vjvi AskMhY ewx tctZ v`K| Avevi wefbaetvWp wqšyvatb Avmvi `iab cUugK we`ij q,tjv wR^`KxqZvl nmitq tdtj | Mbu-Bb-GBW cUv Gt`tk temiKvix wkqv cUzovb Mto ZytZ Drmn mwó KtiwQj | wkqv\_xfi i teZb temiKvix cUzovb Kg\_vKvq Ges fuzp wqg wKQyv wku\_j nI qvq wkqvMhY Gt`tk wKQyv Rbucq ntq DfvwQj | Gt`tjfi nvUvi Kugkbi mdj ZvB cUxqgvb nq| GZ0`ZxZ bvix wkqvq temiKvix mg\_b, bvix cwi`kR wbtqm cfwZ. bvix wkqv AMwZtZ mrvqK ntqWj |

wkqv cwiKibvq wKQyv mvmx c`tjc MhY Kij I nvUvi Kugkb we`ij tqi djvdtj i wfiEtZ Abvib weZitYi bwiZi gva`tg wkqvK wqšy KtiwQj | GB bwiZi KvitY AtbK wkqv\_xfi wkqvRiebB tkl ntq hvq| cUugK we`ij qmgfn evrmwi K Li`Pi GK ZZxqusk miKvi KZR.entbi cwiKibvi K\_v etj mveRxbv cUugK wkqv AvKvLv`K wbevib t`lqv ntqWj |

**jwKvRbi wkqv cwiKibv:** jwKvRb wkqv`tjfi tzi eQi eqm chsi gvZfiLv`K wkqv gva`g wntmte`kuz. t`lqvq wkqv cUz gvbtji AvMh ewx tctwQj | cUugK wkqv Atar Ask e`q miKvi enb Kivq wkqv\_xfi i wkqv e`q KtgvQj | wKs`jwKvRbi Abvb` cwiKibv,tjv wQj evsjv Z\_v fviZetIp wkqvK wqšy titL fviZem`K AwkqvZ ev`f wkvqZ RbtMvotZ ifcvshi Z Kivi tKskj | Zte bvbvgyx wqšy Avivc Kti I KvRb Gt`tki wkqvK Zvi AvKvLv`bvq wqšy Kitz cvtib w|

**m`Wjvi cwiKibv:** m`Wjvfi i wkqv cwiKibvq BvUvi wgvWtqU cvmtK mekpe`ij tq fuzp thvM`Zv etj wbfcy Kiv nq| bvix wkqv, ewEgj-Kl tckvMZ wkqv Ges cdivc`gyj gvbt`i wkqv Dbqtb wZvb myi-c`hvix cwiKibv cYqb Ktib | GQovv wZvb Kvi Mix I chv`MZ wkqv Ges wkqvK cUk`tyi cwiKibv MhY Ktib | wKs`m`Wjvfi i wkqv cwiKibvq evi evi A`qtb Dci ,iaZyivc Kiv mtEj A`qtb Rb` tKv mjbw` Drmi D`j - L Kiv nq w| dtj cwiKibvq ewyZ mKj D`ik`B Amvi ntq cto|

**mtRb cwiKibv:** fviZi ewk kumbvgtj hZ,tjv wkqv cwiKibv cYxZ ntqWj Zb`a` mvtRb cwiKibv ,YMZ w`K t`K`-DEzgtbi wQj | cieZ`Z Gt`tki wkqv cwiKibvi AtbK Dcv`vbB mvtRb cwiKibv t`K MpxZ ntqWj | GtZ wkqv mKj t`tjfi cUz gbtvthvM t`lqv ntqWj | GtZ evqvw` wkqv t`K mekpe`ij q, wkqv MtelYv, eq` wkqv cfwZ. m`utK`mjbw` cwiKibv itqWj | Zte cwiKibvq th`xN`mgtqi D`j - L itqWj Zv mgvtj vPbvi `vex iv`L | cwiKibvq th A`eiv`i K\_v ejv ntqWj wZxq mekht`xi ci cUz eQi gy`wZi wvii`L Zv mstkvatbi Avfvl wQj bv | GZ0`ZxZ cwiKibvi A`qtb mjbw` fivte Drmi D`j - L wQj bv |



### cvWĒi gj`iqb- 2.2

#### A) eũbePbx cĕæ

mĠK DĒi ĩbt`R gj-K AġiUġK eĒiqZ Kiab | (D`vniY: Avcbvi ĩbePZ DĒiU ŐKŐ ntj GġK (K) eĒiqZ Kiab)

- 1/ nũUvi Kugkb  
 K. D`P ĩkġv Dbqġb cwi Kġbv tck Kġi  
 L. cŐ\_ugK, gva`ugK I brix ĩkġv Dbqġb cwi Kġbv tck Kġi  
 M. cŐ\_ugK I gv`ĩmv ĩkġv Dbqġb cwi Kġbv tck Kġi  
 N. eq`ĩkġvi Dbqġb cwi Kġbv tck Kġi |
  
- 2/ j WĠKvRġbi Rwiġci Z\_`vbyĩti evsj vġ`ġk KZ eMġvBġj GKũ Bstĩ ĩR gva`ugK ĩe`ĩj q ĩQj ?  
 K. 108  
 L. 106  
 M. 104  
 N. 102 |
  
- 3/ j xMm ĩekġe`ĩj ġqi DcvPih`Wt gvBġKj m`vWj vġi i tbZġZj MmZ KugkbġK ej v nZ  
 K. XvKv ĩekġe`ĩj q Kugkb  
 L. tKij KvZv ĩekġe`ĩj q Kugkb  
 M. दिल्ली विश्वविद्यालय कमिशन  
 N. Avj xMo ĩekġe`ĩj q Kugkb |
  
- 4/ mġRĠ ĩkġv cwi Kġbv KZ eQi tgqv`x ĩQj ?  
 K. 40  
 L. 50  
 M. 60  
 N. 70 |

#### Av) msũġB DĒi cĕæ

- 1. nũUvi Kugkb cŐxZ ĩkġv cwi Kġbvi mgvġj vPbv ĩj ĩce`x Kiab |
- 2. ŐmġRĠ cwi Kġbv , YmZ ĩ`K t\_ġK `i-DBzgvġbi ĩQj Ő e`vL`v Kiab |
- 3. m`vWj vġi i ĩkġv cwi Kġbvi mġear Ges `ġZv , ġj v Dġj ĩ Kiab |

**B) iPbuqj-K cřkœ**

1. eřUk fviřZ nřUvi Křgkřbi ukřřv cwi Křbv Ges j W©KřRřbi ukřřv ms`vi cwi Křbvi ñeiY řb|
2. gva`ngK ukřřv, D`P ukřřv, ukřřK cřkřřY I Ab`vb` řřřř m`Wjvi cwi Křbvi mřřvi k, řjv Avřj vPbv Kiab|
3. řřřř nekřřři ci fviřZi ukřřv Dbqřb mřřř cwi Křbvi `ewkó`mgřni ñeiY řb|

**mřřK DĚi**

A) 1| L    2| M    3| L    4| K







փ՛ Ae GWԶKkb

- 7. cԾւցK ւե՛ւյ զի A\_թիb miKvi kZKiv 50 ֆւM e՛q enb Kiթe Ges RbMY kZKiv 50 ֆւM enb Kiթe| gva՛ւցK ւկՂvi տՂի՛տի տցւU e՛տի kZKiv 60 ֆւM ւկՂv\_թի i teZb տ\_իK ւցւի՛Z նե Ges evKx kZKiv 40 ֆւM miKvi enb Kiթe| D՛PZi ւկՂvi տՂի՛տի RbMY eZթիbի Zյbօq Avիv տեւk cւi գի՛Y e՛q ւեթի Kiթe|
- 8. bօix ւկՂvi cԻvi Kիի miKvi իK Avիv տեւk mնիւմZvi cւi Kի bօ MԻY KiիZ նե|

nօյյի ینگb ւկՂv Kւցk b ւկՂvi ւեթիb փի , YMZ տKv cւi eZթիb մջւիկ Kիիւb| 1969 մի՛յ AvBDe Lիիbի cZիbի ci Gօvi գւկի bի-Lիիbի տZիZ; GKւU ւկՂv Kւցk b MւWZ նիւQj | GիZ ւկՂv մաւի՛KՅZմի՛ճK, D՛vi I cԻմZkxj e՛e՛ յQj | ւKՏ՛ evՅv j x RօZxqZօv ՝x Avի՛ւj b Ggb շիթq տԻիQի Qի th cւi K־իb կմի՛Kiv GB ւկՂv cւi Kի bօ ւեթի տեւk ՝յ AMիի նիZ cիիւb|

**կւի d Kւցkիbի ւկՂv cւi Kի bօ մցի՛յ յPbօ**

կւի d Kւցk b ւկՂի՛K գօbe մաւի՛ Dbթիb , յաZԿԿՅՅեւեթիւմ ւնիմե ւեթիPbօ Kիի՛Q| GիZ D՛PZi ւկՂvi , YMZ ցօb Dbթիbի Rb՛ մջւիկ Kiv նի՛տիQ| cԾւցK, gva՛ւցK I D՛PZi ւկՂv Ges MիելY մաւի՛նի՛յի ՝ւօֆւ՛I GիZ cԻK տԻիQ| Kւի Mix I cԻի՛Յ MZ Ges ւի՛Eջ-KւկՂv ւի՛x i gva՛ից միցււRK I A\_թիւZK Dbթիbի MւZիK Zիմի՛ճZ Kivi AvKv-Lv e՛՛ Kiv նի՛տիQ| bօix ւկՂի՛K Gւմից տիլօvi Avեթի GիZ իի՛տիQ| ւկՂvi A\_թիb cԻb Drm ւնիմե տեմի Kօix LօZիK մի՛նի Յֆիտե յPիւZ Kiv նի՛տիQ| ւKՏ՛ կւի d Kւցkիbի AիbK\_իյ cւi Kի bօ h\_ւh\_ իւօից օի՛տիւKZvi Afիտե ev՛եւմզ nօիւb|

**cԻեւմ Ք ւկՂv cւi Kի bօ**

**1951 մի՛յ յի՛ k eQi տցօ՛x cւi Kի bօ մջւիկ**

cւi K־իb մի՛նի նիլօvi ci miKvi ւZbւU cԻեւմ Ք cւi Kի bօ(1955-1960, 1960-1965, 1965-1970) MիY Kիի| Gme cւi Kի bօ ւկՂvi Dbթիb I մաւի՛նի՛յի Rb՛ bօbւեա մջւիկ Kiv նիլ| կւի d Kւցk b, nօյյի ینگb Kւցkիbի ւկՂv մսմի՛ճի մջւիկ\_իյ Gme cւi Kի bօ ւկՂv շի՛նի Z նիլ| Zիե Gi շիե՛1951 մի՛յ ւի՛յ յի՛ իki cԾւցK ւկՂvi Rb՛ GKւU ՝k eQi տցօ՛x cւi Kի bօ MիY Kiv նիլ| հիւ Dիյ - Lիիւմ՛ cւi Kի bօ\_իյ յQj cԾւցZ ՝k eQi ւի՛յ յի՛ իk cւիK նիլRօi AթեZիւbK ւեա՛Zից-ի cԾւցK ւե՛ւյ յ յի՛cb; ւՅZxqZ cԻեւմKօ cիքՂv cւմ Ges Zրմի՛Յ cԾւցK ւկՂK cԻքՂY BbիւււU DU տ\_իK GK eQi տցօ՛x cԻքՂY cԻՅ Gaiիbի ւZbRb ւկՂK KZՔ GK GKւU cԾւցK ւե՛ւյ յ cւi Pօյ bօ Kiv; ZZxqZ տ\_իki cԾւցK, gva՛ւցK I Rիլօqi cԾւցK տKօxi գիա՛ մցի՛ց միւb Ges PZիZ cԻգ տKօxi տ\_իK cԾւցK ւի՛E cիքՂv cԻZթիbի cւi Kի bօ տցօ՛ նիլ|

ւKՅի b cւi Kի bօ Abիյօx Pիյ ci miKvi A\_թիիեի KօiY տ\_իլից cԾւցK ւկՂv մաւի՛նի՛յի ւեթիLZ bZb փ՛ շի՛նի eU Kիի ւկՂvi , YMZ ցօb ւի՛x i cԻZ , յաZիտե Kիի|









### cvVĒi gj'iqb-2.3

#### A) eūbePbx cĕæ

mWk DĒi ūt`R gj-K AŋiUtk eĒvqZ Kiab | (D`vniY: Avcbvi ūbePZ DĒiU ŐKŐ ntj GtK K eĒvqZ Kiab)

- 1/ evsj vt`k cvK`lb i vtŏf Ašf nq  
 K. agx RvZxqZvev`i vfiĒZ  
 L. evŐj x RvZxqZvev`i vfiĒZ  
 M. AvšRZKZvev`i vfiĒZ  
 N. fvl vfiĒK RvZxqZvev`i vfiĒZ |
- 2/ BstRiv evsj vt`tk ūkŋvi gva`tg ūK`Zmi KiZ tPtq ūQj ?  
 K. ŐŐi apZ, fveavivq, bmvZtZ I evxevĒZ evŐj xŐŐ  
 L. ŐŐi apZ, fveavivq, bmvZtZ I evxevĒZ BstRŐŐ  
 M. ŐŐi apZ, fveavivq, bmvZtZ I evxevĒZ fviZxqŐŐ  
 N. ŐŐi apZ, fveavivq, bmvZtZ I evxevĒZ cvK`l bxŐŐ |
- 3/ 1957 mvtj ce cvK`ltbi ūkŋv e`v ms`vi I cŋMŋb Kugul  
 K. D`ŋ fvl vtK ūkŋvi gva`g ūntmte MŏtYi mŋvwi k Kti  
 L. BstR fvl vtK ūkŋvi gva`g ūntmte MŏtYi mŋvwi k Kti  
 M. gvZ fvl vtK ūkŋvi gva`g ūntmte MŏtYi mŋvwi k Kti  
 N. D`ŋ BstR vtK ūkŋvi gva`g ūntmte MŏtYi mŋvwi k Kti |
- 4/ 1956-57 mvtj ūkŋv xŋ i gv`vvcŐye`q ūQj  
 K. evsj vt`tk 12.38 UvKv Ges cvŐg cvK`ltb 42.22 UvKv  
 L. evsj vt`tk 4.60 UvKv Ges cvŐg cvK`ltb 20.72 UvKv  
 M. evsj vt`tk 33.20 UvKv Ges cvŐg cvK`ltb 12.80 UvKv  
 N. evsj vt`tk 9.00 UvKv cvŐg cvK`ltb 4.60 UvKv |

#### Av) msŋŋB DĒi cĕæ

- 1. AvZvDi i ngvb Lvb ūkŋv Kugkŋbi GKul mgvtj vPbv ūj Lŋ |
- 2. cvK`ltbi kumbvgtj evsj vt`tk cŐ ūgK ūkŋvi ūbgŋx cĒYZv I Gi Kvi Y, tj v Dŋt Kiab |
- 3. evsj vt`tk ūkŋvi A`ŋt b cvK`lb mi Kvti i `elg`gj-K bmvZ e`vL`v Kiab |

**B) iPbugj-K cÅæ**

1. eUk vriþZ uk¶vi cÅZ. uKifc uQj? AvZvDi ingvb Liv I kwi d Kugkþbi uk¶v Dbqþ mæuKZ mæwi k, þj v uLj|
2. cÅK`lb Avgþj MpxZ uZbuU cÅeml R cwi Kí brq ersj vt`þki uk¶v Dbqþb thme mæwi k Kiv nþqþQ Zvi weeiY w`b|
3. cÅK`lb Avgþj MpxZ cÅeml R cwi Kí bri gva`tg ersj vt`þki uk¶vi Muz-cÅZ, A\_þb BZ`w`þZ th cÅve cþþQ Zv Avþj vPbv Kiab|

**mÅK DËi:**

A) 1| K 2| L 3| M 4| K









DcibgombK uk`ivi Rb` c`lg c`Aeml R` cwi Kí bvq 40 tKwU UvKv eiví ivLv nq| `vbxq Pvn`v, mvgvRK I A`%buzK cwi tek, `vbxq Dbqb c`Póvi gva`tg DcibgombK uk`ivi cwi Kí bv Mh`Yi Dci `iaZy`ivc Kiv nq | eq`v m`v`i Zv I MY uk`ivi Rb` wevfb`e GjvKvq cwi tek, mgvR, ukí, uk`iv\_xp`i eqm c`fuzi c`Z gtbvthvM w`tg cwi Kí bv Mh`Yi K\_v ejv nq | GQvov wevfb`et`^Qv`mex ms`v`K ZYgj-ch`q uk`ivi Rb` `vqZj `v`bi m`v`ik Kiv ntq`Q| cwi Kí bvKv`xb mg`q uk`iv g`š`y`j q I `vbxq miKvi g`š`y`j`qi th`\_ D`v`M G ai`bi Kg`m`P ev`é`vqb Kivi b`m`Z tNvI Yv Kiv nq| GRb` ÓMY we`'ij q0, Óh`g K`v`ú0, Ó0m`v`i Zv we`'ij q0, Ó0g`m`j v uk`iv tK`^0, Ó0k`igK we`'ij q0, Ó0DcibgombK e`v`E`g`-K uk`iv tK`^0 c`fuzi gva`tg uk`iv `v`bi Kg`m`P Mh`Y Kiv ntq`Q| GQvovI ti`wvI, tUvj w`f`kb c`fuz`K G j`q`' e`en`v`i i cwi Kí bv M`p`x` nq|

### KzivZ-G-Lyv uk`iv Kvgkb w`i`c`w`(1974)

Rwzi RbK e`ze`Ú`tkL gvRej ingvb 1972 m`v`ji 24 t`m`P`f KzivZ-G-Lyv Kvgk`bi Avb`gombK D`f`vab K`ib| bZb t`tki Rb` h`j`Mv`c`thvMx GKwU Av`v`bK we`Avb w`f`v`EK uk`iv e`e`v Mto t`Zv`vi j`q`' weik0 we`Avb Wt KzivZ-G-Lyv`K Av`v`v`q K`i 18 Rb c`\_ Zhkv uk`iv we`i mg`š`q GKwU uk`iv b`m`Z c`f`qb KvgwU Mv`b Kiv nq| Óuk`ivi b`v`b`nea Afve I m`v`l we`P`v`Z `h`K`i`Y, uk`ivi gva`tg m`g`y`Rwz Mv`bi w`b` R `vb Ges t`k`K Av`v`bK `Avb I Kg`R`v`Z ej`x`q`v Kivi c`\_ w`b` `f`ki D`f`i`k`B miKvi GB Kvgkb w`b`q`vM K`i0| 1975 m`v`ji 15 AvM`- Rwzi RbK e`ze`Ú`tkL gvRej ingvb I Ziv` cwi ev`i i m`m`f`i w`b`z n`Z`v`K`v`Úi ci iv0`q`Z`v`q Av`v`b`Z kv`m`KeM`GB w`i`c`w`Ú`K RbM`Yi g`ta` c`P`v`i Z n`Z t`q`v`b| w`i`c`v`U`P gj-m`g`v`v`i k, `j`v w`b`g`e`c`:

### c`\_`v`g`K I c`K-c`\_`v`g`K uk`iv

1. t`tki A`%buzK, mvgvRK I ivR`%buzK Dbq`bi j`q`' RvZxqZvev`, MYZ`š; mgvRZ`š; I ag`v`b`i`c`q`Z`v`K iv0`q` gj-b`m`Z w`n`m`te Mh`Y Kiv ntq`Q| mvgvRK ifcv`š`i i n`m`Z`v`i w`n`m`te uk`iv`K c`Q`v`Mg`y`x, m`R`b`k`j I M`t`el`Y`v`ag`x`Kivi cwi Kí bv Kiv ntq`Q|
2. evsj v`v`v`K uk`ivi gva`g w`n`m`te Mh`Y Kiv Ges l0 tk`Yx t`\_`K B`st`i`w`R f`v`v` uk`iv `v`bi Kg`m`P `b`q`v`i c`Z`q e`^3 Kiv ntq`Q| D`P`Zi M`t`el`Y`v`i Rb` we`f`k`x f`v`v` uk`ivi j`q`' GKwU Av`v`bK f`v`v` B`b`v`v`v`JDU `v`c`bi cwi Kí bv `ck Kiv ntq`Q|
3. t`tki m`Kj uk`iv c`Z`v`b` uk`iv`K uk`iv\_xp` nvi we`Avb m`v`Z ch`q` Db`Z Kivi cwi Kí bv Kiv ntq`Q| G`Z c`\_`v`g`K we`'ij`q` uk`iv`K uk`iv\_xp` nvi m`f`v`P 1t35 Ges t`c`v0 M0R`q`U w`i`m`v`P`ch`q` me`b`e` 1t5 Kivi cwi Kí bv Dc`v`cb Kiv ntq`Q|
4. c`w` eQi eqm ch`š`i`k`i`f`i Rb` Ó0w`ki fe`b00, Ó0w`ki D`v`b00 `v`c`bi m`g`v`v`ik Kiv ntq`Q| GKwU w`ki uk`iv M`t`el`Y`v` B`b`v`v`v`JDU `v`c`bi gva`tg w`ki uk`iv I w`ki g`b`E`j m`v`ú`K`M`t`el`Y`v`i cwi Kí bv Kiv ntq`Q|
5. c`\_`g tk`Yx t`\_`K c`Á`g tk`Yx ch`š`i`k`i`f`i`K A`%Z`v`b`K I eva`Z`v`g`-K Kivi b`m`Z tNvI Yv Kiv nq| cieZ`v`mg`q A0g tk`Yx ch`š`i`k`i`f`i A`%Z`v`b`K I eva`Z`v`g`-K m`v`e`R`b`x uk`ivi cwi Kí bv t`b`l`q`v` nq|



6. cwi Kíbv Kugktbi Rbkiv<sup>3</sup> wefivM t`tki wefibeivki KviLvov, Kul. cfiwZ. t`q`f  
Pvov`v ubifc`Yi gva`tg Kvvi Mix uk`qvq fivZP cwi gvY uba`fY Ki te|
7. tgavex Kvvi Mix uk`qv\_` i wvMoc`KSk`j uk`qvi m`shvM \_vKte|

### gv`imv I tUvj uk`qv

1. c`ugK, gva`ugK I e`Egj-K uk`qvi mv`\_ mgšq mvab Kfi gv`imv I tUvj uk`qvi  
ms`vi mvab Kiv nte|
2. beg tkYx t`tk wZbeQi tgqv`x e`Egj-K uk`qv vntmte agrq uk`qv Pij yKiv nte|

### uk`qK c`k`qY

1. uk`qK`i c`qvRbxqZvi K\_v gtb ti tL `f I ga` tgqv`i wfiE`Z c`ugK, gva`ugK  
I e`Egj-K we`'ij tqi uk`qK`i Rb` c`k`qY Pij yKivi c`leKiv nq|
2. Dch` j`f` c`qvRtb`bk I LÚKvj xb tKvm`Pij yKiv th`Z cvti|
3. uk`qK`i cvV`v`bi gv`bvbq`bi Rb` m`Axebx tKvm`Pij yKiv nte|
4. Ggb wKQyuk`qK c`k`qY c`Zovb \_vKte th`\_tjv t`tk e`v`Pji, gv`÷vm`I W±tiU  
wvMoc`v`bi AeKivv`gvMZ m`pav \_vKte|
5. uk`qK c`k`qY`Y ti wvI, tUvj wfkbnm Ab`vb` AvaybK ch`v`i e`envi Kiv nte|
6. RbmsL`v e`x, t`tki Pvov`v cfiwZ. we`Pbv Kfi gva`ugK uk`qv I MtelYv  
BbivUD`Ui Kih`pigm`ni c`v`im Kivi cwi Kíbv tck Kiv nq|
7. mekpe`'ij qmg`n uk`qK c`k`qY wefivM tLvjv nte|

### D`P uk`qv I MtelYv

1. D`P uk`qvi ms`vi mvab Kfi MtelYv I we`k`Ulyg`x, Ávb`q, `f`w` I `v`xb wPšf  
kiv<sup>3</sup> m`ub`Rbkiv<sup>3</sup> m`p` Kiv nte|
2. mgvR I t`tki Pvov`v`K we`k`Y Kfi cwi Kví Zfvte D`P uk`qv m`ú`v`i`y c`t`q`c  
tbqv nte|
3. t`tki A`wZK cwi Kíbvri mv`\_ m`ygušZ Kfi uk`qZ Rbm`ú`i Pvov`v uba`fY  
Kiv nte|
4. D`P uk`qvi p`gea`gvb Pvov`v I e`q m`KivP`bi c`Z tLqvj ti tL tckv wfiEK  
mekpe`'ij qmg`n wefibeiv`q Abvm`I tció M`R`qU wvMOPvj yKiv nte|
5. cY`vj xb uk`qvi cvkvcw`k D:gy` mekpe`'ij q `vcb Kfi LÚKvj xb uk`qv ch`v`i  
c`Póv` tbqv nte|
6. K`jR I mekpe`'ij tqi uk`qK I tgavex uk`qv\_` i uk`qvi gv`b Dbq`b tg`j`K  
MtelYvi m`shvM m`p` Kiv nte|



4. thmKj tcSimfvi tjvKmsL`v j 9lwaK tm mKj tcSimfvtk wBR GjuKvi meRbxb c0`ugK uk9lvi m`uY`e`q enb Kivi mgwmi k Kiv nq| Ab`vb` tcSimfv` 9 ZZxqisk e`q wbe9 Ki te Ges tRjv cwi l` , tjv 35% e`q enb Ki te|
5. gva`ugK me`vj tqi e`tqi 50% QvI`teZb Ges 50% mi Kivix I Ab`vb` Dm t`tk entbi cwi Kí bv c9qb Kiv nq|
6. mekpe`vj tqi uk9lvi t9tI` uk9lv`x` i teZb ewxi cwi Kí bv tck Kiv nq|
7. uk9lv e`q me`tklZ Kwii Mix I ewEgj-Kuk9lvi e`tqi ep`vsk ukí KviLvbmgt9ni 9viv entbi c0`letck Kiv nq|
8. uk9lv e`q Ges Gi Dm thgb Ki, QvI`teZb, Dbqb Znmej, `et`ukK mrvnh` c0`fuzi cwi Kí bv c9qtb uk9lv g99vj tq GKw kvLv MVb Kiv nte|
9. Rbm`u` m`u`tk` xN9gqv`x ce99yb, Z` msM9 I me`k- l9yi gva`tg `xN9gqv`x Pwv`vi wfiE`Z uk9lv cwi Kí bv c9xZ nte|

**mgvtj vPbv**

Wt KzivZ-G-Lyv uk9lv Kugkb evsj vt`tki uk9lvi BwZnv9m GKw AwZ gj`erb `vj j wnt9te me`ewPZ| GtZ evsj vt`tki uk9lvi ev`e mgm`v` , tj vtK wPwuz Kiv ntqtQ Ges G mKj mgm`vi mgvavtb m9bw`9 cwi Kí bvi K\_v e`3 Kiv ntqtQ| GtZ t`tki uk9lv e`e`vi Avgj- ms`vi mva`9bi cwi Kí bv Kiv ntqtQ| uk9lvi c0`ZwU ch9q t`k, t`tki A\_9wZ, Pwv`v Ges Z`b9vqx e`e`v M9Y c0`fuztk , i9z; c0`vb Kiv ntqtQ| uk9lv cwi Kí bv tk ev`evq9bi Rb` uk9lvq A\_`ms`v9bi K\_v myi fivte Dc`vcb Kiv ntqtQ| GtZ c0`qvRbxq A`\_P cwi gvY wba9Y, Zv mslM9ni m`e` bvbwea Dr9mi mUvb `v9bi c0`P9v tbqv ntqtQ| Zte evsj vt`tki gv99li A\_9wZK m9t`i Z9bvq m`e`Z A\_`ms`v9bi Rb` Ziv`i Dci GKUZteuk Ges bvbv99x K9i c0`veKiv ntqtQ| uk9lv GK\_vl ejv ntqtQ th, Gait9bi Z`vM `9Kvi e`ZxZ Abyz GKw t`tki uk9lv cwi Kí bv I A\_9wZtk myi fivte GwM9q tbqv m`e` bq| GtZ uk9lv t9tI` `f tgqv`x, ga`tgqv`x Ges `xN9gqv`x cwi Kí bvi gva`tg AM9ni nI qvi mgwmi k h\_v`\_PvteB Dc`vncZ ntqtQ|





**cW 2.5**

**evsj vř`tki vřv cwi Křıbv (1980-85)**

**Dřık**

GB cW tkřl Avırb-

- cŭg cÄeml R I vř-eml R cwi Křıbvi ev`evqb AMMıvZ weeZ KiřZ cviřeb;
- cwi Křıbv ev`evqřbi evav, řjv Dřj L KiřZ cviřeb;
- vřZıxq cÄeml R (1980-85) vřv cwi Křıbvi Dřık`evıj, Kgřıv I A\_řms`ıv m`ıřK`evL`ıv KiřZ cviřeb|

1978 mřjı tkřl cŭg cÄeml R cwi Křıbvi djvdj mgr- gj`vqřbi gvařg mi Kvi Abıveb Křı vřvı třřř th mKj j řř cŭg cÄeml R cwi Křıbvıřj ARřbi K\_v vřj ev`ře Zv ARř Kiv m`e nqıv| GmKj j řř ARřbi Rb` Avı l mgtqi cřqvRb iřqřQ| Zıv cwi Křıbv Kugkb 1978 mřjı RjıvB t\_řK 1980 mřjı Rıy chřř GKıv vř-eml R cwi Křıbv cřqb Křı| vřř Zv mřřj cwi Křıbvi AřbK j řřB AvıRZ nqıv| mřZ KviřYB G mKj j řř AvıRZ \_ıvı Kvi Y, řjv vřıvřZ Kivı Rb` cwi Křıbve`MY mřPó nb| cwi Křıbve`ř i gřZ, řm`ıřř i AcřřZvıř KviřYB (1973-80) Kvj cřř cwi Křıbv `ıř j řř mgr AvıRZ nqıv| AvıKřř knı l Mřg Ges cřř l bıvı gřa` vřvı `elg` ve`gıv t\_řK hvq| mi Kviř l temi Kviř Křj řřı vřv eřq e`vcK cv`R` j řř Kiv hvq| vřZıxq cÄeml R cwi Křıbvı (1980-85) Dřj - L Kiv nq th, řm`vřvı veıbřqvřMi kZKıv 70 řřřı teıv Přj hvq knı Gjıvıv thLvřb mekře`ıj q, mi Kviř Křj R l řř, řjvı teıvı řıv Aev`Zřř|

1973-80 mřj chřř vřv třřř mi Kviř eřqı j řř gıvıv l ev`evqb m`ıřK`mıvıvY-3 t\_řK avıvı jvř Kiv hvq| 1973-80 mřj chřř vřvLvřZ meřgıv e`q eıvı vřj 454,00.52 j řř vıvı| Zbřa` meřgıv Gıvıv (Annual Development Programme) eıvı vřj 289,52.36 j řř vıvı| j řř Yıx, Dřj - vřZ Gıvıv eıvıı gvařg gıvı 61.77% vřvLvřZ cřřřve eıvı nřqřQ| eıvı KZ. Ařř 87.41% vřv třřř cřřřve e`q nřqřQ| Avıř řK meřgıv cwi Křıbv eıvıı gıvı 57.02% vřvıřřřř cřřřve G vřvıvı gvařg e`ıvıv nřqřQ| G t\_řK 1973-80 mřjı vřv cwi Křıbvı KZK, řjv `řřZv j řř Kiv hvq|

**cŭgZ:** vřv cwi Křıbvı eıvıı GKıv j řř gıvıv vıvř Kiv nřj l m`ıřř i mıxıvıvZıvı Kviřıv mi Kvi chřřřř Gıvıvıvı gvařg Zv mıeıvıv KiřZ e`\_řřřřQ|

**vřZıxqZ:** chřřřř Gıvıvıvı KZK.eıvı KZ.A\_ř vřvı třřř m`ıřřve e`q Kiv m`e nqıv|

**mviv- 3**

cᄀg cĀeml R I wewl R cwi Kí bvKvtj wkᄁv Dbqb eᄁ (j ᄁ UvKvq)

<i>Dc-ᄁmᄁimgn</i>	<i>cwi Kí bv eiví</i>	<i>Gwllc eiví</i>	<i>cKZ eᄁ</i>	<i>cwi Kí bveivíᄁi wᄁᄁte kZKiv cKZ Gwllc eiví</i>	<i>Gwllc eivíᄁi wᄁᄁte kZKiv cKZ eᄁ</i>
1	2	3	4	$5 = 3 \div 2 \times 100$	$6 = 4 \div 3 \times 100$
<i>cᄀwK wkᄁv</i>	8003.83	3680.45	3411.38	42.62	92.69
<i>gva wK wkᄁv</i>	8864.93	3505.28	3011.09	33.97	85.90
<i>Ktj R wkᄁv</i>	3854.93	1717.92	1475.39	38.27	85.88
<i>wKᄁK cKᄁY</i>	2823.54	1018.13	792.14	28.05	77.80
<i>Ab'vb'' wkᄁv msᄁvšKvRKg<sup>ᄁ</sup> (wllcAvB)</i>	1854.63	4938.39	4799.39	258.78	97.19
<i>ᄁUKvbK'vj wkᄁv</i>	8863.30	5950.56	4707.25	53.11	79.11
<i>wKᄁv'vj q wkᄁv</i>	5715.72	6910.88	6830.38	119.50	98.84
<i>wKᄁv gšYj ᄁq wbR'^ᄁg</i>	5419.64	1230.75	858.48	15.84	69.75
<i>meᄁgvl</i>	45400.52	28952.36	25885.50	61.77	87.41

**Drm:** The Second Five Year Plan 1980-85, Planning Commision, Ministry of Finance and Planning. Government of the People's Republic of Bangladesh, Dhaka, May 1983. P.285

**ZZᄁZ:** cwi Kí bvq eiví KZ.A\_ᄁGwllci gvaᄁg bv cvl qvi dtj cwi Kí bvq thme wkᄁv cᄀZᄀvb cᄀZᄀvi j ᄁ' tNvl Yv Kiv nᄁᄁQ ev th cwi gvY wkᄁv\_ᄁK wkᄁv'vᄁbi j ᄁ'gvᄁv tNvl Yv Kiv nᄁᄁQ Zvl ev'ewᄁZ nqub`ihvᄁmᄁZfvᄁB|

**PZzᄁ:** Ab'vb'' wkᄁv msᄁvš KvRKg<sup>ᄁ</sup> (wllcAvB) I wKᄁv'vj ᄁq wkᄁv Dcᄁmᄁi cwi Kí bv eivíᄁi Zᄁbvq Gwllci gvaᄁg tenk A\_ᄁmieivn Kiv nᄁᄁQ Ges eᄁq tenk nᄁᄁQ| cwi Kí bve' MY Aek'' GRb'' D'P wkᄁvq tenk eᄁq Kivi Rb'' knᄁi ga'weE tkYxi Pvc cᄀqMᄁK KviY wᄁᄁte Dᄁᄁ KᄁᄁQb| G KviᄁYB cwi Kí bve' ᄁ' i gᄁZ djvdj hvᄁ' i KᄁQ tcᄀᄀvi K\_v wQj Zv mᄁe nqub| dtj wkᄁv Dbᄁᄁbi gvaᄁg mgZv weavᄁbi AvKvLv t\_ᄁK tMᄁQ mᄁi-civnZ|









### **gnue`'vj q uk'lv**

1. B>UvimguM'tqu ch'q 1985 mvj 3.37 j 'lv uk'lv\_x'K fuz'Kiv Ges WWM'ch'q 1.44 j 'lv uk'lv\_x'K fuz'Kiv|
2. th me c'K' ev`'evqbraxb Zv AM'iaKvi w'f'EtZ tkl Kiv|
3. th me tRjv tK't`'a tKvb miKvix g'ujv K'tj R tbb tmme tRjv tK't`'a GK'u K'ti g'ujv K'tj tRi Db'qb mvab Kiv|
4. bZ'b RvZxqKiYKZ.K'tj R\_s,tjvi Db'qb mvab Kiv|
5. evQvBKZ.temiKvix B>UvimguM'tqu Ges WWM'K'tj R\_s,tjvtK we'Avb uk'lv`vtbi Rb` Db'qb Kiv|

### **Kvii Mix uk'lv**

1. mKj Bw'Avbqvii s K'tj tR w'bw'g'Z t'f'sZ-AeKvW'tgvi e`'envi w'bw'oZ Kiv |
2. tU· UvBj tUK'tbvj Rx K'tj R, ew'E'gj-K tU'ibb Bbw÷w'UDU, ew'E'gj-K uk'lvK c'lk'lv Bbw÷w'UDU, Bw'Avbqvii s K'tj R I Kvii Mix uk'lv ÷vd K'tj tRi AmgvB KivR\_s,tjv mgvB Kiv|
3. th me c'ij tUK'ib'tK w'oZxq uk'dU P'ij y'q'ub tml'vtb w'oZxq uk'dU P'ij y'Kiv|
4. c'v'w'U tUK'ibK`'vj Bbw÷w'UDU'tK c'ij tUK'ib'tK i'f'v's'li Kiv Ges 12w'U c'ij tUK'ib'tK i Db'qb mvab Kiv|
5. g'ujv vt`i Rb` GK'uU c'ij tUK'ibK `v'cb Kiv|
6. 1985 mvj bvMv` Kvii Mix uk'lv i w'ef'bw'e t'q't' 41,610 Rb uk'lv\_x'K fuz'Kiv|

### **mekte`'vj q uk'lv**

1. 1985 mvj bvMv` mekte`'vj q\_s,tjvtZ 40,000 uk'lv\_x'G'Ges Zb't'a` 8,000 Rb Qv't'x fuz'Kiv|
2. mekte`'vj t'qi Pj w'Z c'K' mg't'ni KivR tkl Kiv|
3. 2000 uk'lv\_x'avi Y 'lv g'Zvm'ub'eBmj vgx mekte`'vj q `v'cb Kiv Ges G'tK Bmj vgx uk'lv I w' m'v'P'Bbw÷w'UDU Gi mv't\_ GK'xfZ Kiv|
4. mekte`'vj q\_s,tjvtZ tKvm'c'x'w'Z P'ij y'Kiv|
5. Xv'Kv, PUM'g I ivR'kvnx mekte`'vj t'qi Kgvm'd'v'Kij w'Ui Db'qb mvab Kiv|
6. mekte`'vj q g'Ä'jx K'ug'kb'tK k'w'v'k'ij x Kiv|



**bvix ukᄀv**

1. tᄀᄀ I tgᄀᄀ i ukᄀvMZ mᄀᄀvᄀMi cv\_R'' ᄀ- Kiv|
2. tgᄀᄀ i Rb'' ukᄀvi weifbæᄀᄀi eᄀᄀi e'e'v Kiv
3. cᄀᄀugK ukᄀᄀK cᄀᄀᄀᄀY tgᄀᄀᄀ i Rb'' 50% mxU eiv' i vLv|
4. cᄀᄀugK we''vj ᄀqi ukᄀᄀK ubeᄀᄀbKvᄀj tgᄀᄀᄀ i AMᄀᄀKvi `vb Kiv|
5. wekᄀe''vj ᄀqi weifbæᄀ'vKvj ᄀᄀZ tgᄀᄀᄀ i Rb'' fivZᄀ Avmb msivᄀᄀZ i vLv BZ'w' |

**ukᄀv cwi Kí buq A\_ᄀs`vb**

wᄀZxq cĀewl R cwi Kí buq mi Kvixfᄀᄀe ukᄀvi Rb'' 1979/80 mvᄀj i w' i gᄀᄀ 480 tKvᄀU UvKv Ges Pj wZ gᄀᄀ 707 tKvᄀU UvKv eiv' Kiv nq|

ukᄀvi weifbæDcᄀmᄀᄀi eivᄀ' i cwi gvᄀ mvi wY- 5 G ᄀ' Lvᄀbv nj :

mvi wY- 5

**wᄀZxq cĀewl R cwi Kí buq ukᄀv I agᄀᄀ weIᄀq mi Kvix e'q eiv' (j ᄀ UvKv)**

Dcᄀmᄀᄀi		cwi gvY (w' i gᄀᄀ)	kZKiv	cwi gvY(Pj wZ gᄀᄀ)
K. ukᄀv	1. cᄀᄀugK ukᄀv	22220.58	46.29	33167.88
	2. MY ukᄀv	576.81	1.20	698.02
	3. eᄀᄀᄀj-Kivᄀv	3521.66	7.34	5000.46
	4. gva'ugK ukᄀv	5939.88	12.37	8685.76
	5. ukᄀᄀK cᄀᄀᄀY	785.45	1.64	951.79
	6. gv' ᄀvᄀv ukᄀv	144.36	0.30	217.79
	7. gvwe''vj q ukᄀv	1329.20	2.77	1908.58
	8. Kwi Miv ukᄀv	5892.40	12.28	8817.60
	9. wekᄀe''vj q	3477.90	7.25	4885.49
	10. ukᄀv cᄀᄀᄀᄀ	116.77	0.24	178.00
	11. ukᄀvᄀᄀᄀ Dbᄀᄀb	63.52	0.13	100.00
	12. ukᄀv cwi Kí bv, cᄀᄀvmb I e'e'vcbv	118.19	0.25	178.02
	13. ukᄀv cwi msL`vb	35.72	0.07	45.90
	14. K'ᄀᄀWU Kᄀᄀ R	1478.71	3.08	2195.73
	15. bZᄀ ukᄀvᄀvᄀwZ ev'ᄀvqᄀb	1305.00	2.72	2200.00
igvU (K)		47006.15	97.93	69231.02
L. agᄀᄀ weIᄀq		993.85	2.07	1468.98
meᄀᄀvU (K+L)		48000.00	100.00	70700.00



ᄡ Ae GwKkb

3. ᄡZxq cAewl R ᄡᄡᄡ cwi Kí brq brix ᄡᄡᄡ m=ú#KᄡᄡZ Kgᄡᄡ, t j v ᄡj Lᄡ/

**B) i Pbuqj-K cřke**

1. 1973-80 mřtj i ukřlv cwi Kř bvi `řřZv, mdj Zv I e`\_Zvmgn mřúřK<sup>©</sup> Avřj vPbv Ki ab|
2. wZxq cÂewl ř ukřlv cwi Kř bvi Dřřk` I tKřkj řtj vi weeiY w b|
3. wZxq cÂewl ř ukřlv cwi Kř bvq ukřřK cřkřřY, gva`ngK Ges nekře`ij q ukřlv mřúřK<sup>©</sup>hme Kgnřx MřxZ nřqřQ Zv weeZ Ki ab|

**mřřK DĚi**

- A) 1| K 2| N 3| M**



### gva`ngK ukřlv

1. gva`ngK ukřlvq 25 j řl ukřlv\_xřK řvZ©Kivi cwi Kř bñ vKřj I 32.86 j řl ukřlv\_xřK řvZ©Kiv nq hv cwi Kř bñ j řl gvřvi Zřbvq 31.44 kZvsk teñk |
2. GřZ 1200uU gva`ngK me`vj řq meÁvb meI řqi Mřel YřMři řvcb Kiv nq Ges 150uU gv`řvmvq meÁvb ukřlvi hřřvřZ mieivñ Kiv nq | GQvov 6,500 Rb meÁvb ukřlKřK meÁvb ukřlvi Dci cřkřY cřvb Kiv nq |
3. 341uU KřgDřbñU me`vj řq I qvKřc Ges 301uUřZ hřřvřZ mieivñ Kiv nq hv cwi Kř bñ Zřbvq h\_vřřř 14.75% I 24.75% Kg |

### gnve`vj q ukřlv

1. BřUvřngvMřqU I vřvřMřKřj řR ukřlv\_xř řvZř j řl gvřvi uQj 4.81 j řl | 1985 mřřj Dřq chřřř řvZřZ. ukřlv\_xř cwi gvY uQj 4.28 j řl hv cwi Kř bñ Zřbvq kZKiv 11 řvM Kg |
2. 35uU miKvix gnve`vj řqi Dřřb mřvřZ nq Ges 30uU temiKvix gnve`vj řq meÁvb ukřlvi mřřvřM mřř Kiv nq |

### gv`řvmv ukřlv

1. 150uU gv`řvmv meÁvb ukřlv cřZř Kiv nq |
2. 1980 mřřj gv`řvmv ukřlv\_xř cwi gvY uQj 3.54 j řl Ges 1985 mřřj gv`řvmv ukřlv\_xř cwi gvY `vovq 6.19 j řl hv 1980 mřřj i Zřbvq 75% teñk |

### ukřlK cřkřY

1. řvU cř\_vřK ukřlK cřkřY Bbñ÷uDU řvřZ nřřřř Ges ZZřqñU řbgřřvřxb i řřřř |
2. ukřlKřvř`i cřkřY I Zřř`i Rb` trřřř÷j řvřřbi Dci meřkl řřvi ř`qv nq | QqñU ukřlK cřkřY gnve`vj q Ges 47uU cř\_vřK ukřlK cřkřY cřZřřřbi Dřřb mřvř Kiv nq |
3. 10uU ukřlK cřkřY gnve`vj řq meÁvbMřři i mřřvřM mřř Kiv nq |

### KvřMřx ukřlv

1. mřřřř`i NřUñZi `řb KvřMřx ukřlvq cwi Křř Z e`q 88.2 řKñU UřKvi řřř 49.1 řKñU UřKv cřZ.e`q eivř Kiv nq hv cwi Kř bñ 55.7% gvř |
2. cwi Kř bñ ev`řvřb Křřj 35uU cřřř i gřa` 20uU ev 57.14% mřvř nq |
3. Přivř cřKřřj gnve`vj řq cwi Křř Z ukřlv\_xř řvZř cwi gvY 2,880 Gi řřř řvZř cwi gvY `vovq 3,120 hv cwi Kř bñ Zřbvq 8.33% teñk |

ᄡ Ae GWKkb

4. cij tUKwbK ᄡi cwi Kí bv ev-évaqᄡbi nvi uQj 73.1%|
5. ᄡᄡ klgK fuzP cwi Kí bv ev-évaqZ nqub GgbwK ᄡᄡ klgK fuzP cwi gvY Kᄡg 1980 mᄡj i Zᄡbvq gvĀ 70% ev-évaqZ nᄡqᄡQ|

### wekᄡe ᄡj q ukᄡᄡv

1. wekᄡe ᄡj q ukᄡᄡv\_xᄡfuzP cwi Kí bv 96% ev-évaqZ nᄡqᄡQ|
2. wekᄡe ᄡj q i Rbᄡ MpxZ 38uU cKᄡí i 29uU ev-évaqZ nq hv cwi Kí bvi kZKiv 76.32 fivM|

**uZxq cĀewl R ukᄡᄡv  
cwi Kí bv ev-évaqZ bv  
nI qvi KviYmga-**

uZxq cĀewl R ukᄡᄡv cwi Kí bvi mmeR chᄡj vPbv tkᄡl ejv hvq th, cĀugK I MYukᄡᄡv eᄡqi Zᄡbvq ukᄡᄡv\_p fuzᄡmvgvbᄡ cwi gvY eᄡx tᄡᄡᄡQ| Gi wek- IY Kᄡj ᄡᄡ Lv hvq cĀgZ: uZxq cĀewl R ukᄡᄡv cwi Kí bvq mgvšᄡj v fite ukᄡᄡv\_p eᄡx Ges AeKvVᄡgvMZ mᄡhM mᄡeav eᄡx i cĀPov tbqvi KviY tKvb j ᄡᄡ B AuRZ nqub| uZxqZ: ukᄡᄡv I cwi kᄡKí msLᄡv cĀkᄡᄡv cwi Kí bvi Zᄡbvq AᄡK teuk nI qvi dᄡj cĀkᄡᄡv dj cĀh-nqub| GᄡZ cwi Kí bv ev-évaq Kviᄡᄡ i mgšᄡnxb ᄡᄡfᄡᄡ cwi Ōᄡ nᄡq DᄡV| KviY th tKvb cwi Kiv Z ukᄡᄡv eᄡvq GKᄡᄡK teuk mᄡúᄡ eᄡq Kᄡj ᄡᄡfimeKfiteB AbᄡᄡᄡK mᄡúᄡᄡ i AcᄡᄡZv ᄡᄡ Lv ᄡᄡ q| cwi YᄡZᄡZ mgMĀAuRZ cwi Kí bvB kᄡLj vnxb nᄡq cᄡo| ZZxqZ: cwi Kí bmeᄡMY cwi Kí bv ev-évaqᄡbi dj cĀh, tKšᄡᄡj i Abᄡᄡvᄡzi K\_v ᄡᄡKvi KᄡiᄡQb| GᄡZ cwi Kí bv ev-évaqᄡb AcᄡᄡZ eᄡvcbv mᄡúᄡKᄡ μuU cwi j ᄡᄡZ nq| PZZᄡ: ukᄡᄡv\_xᄡ i ucZvgvZvi ᄡᄡi ᄡeᄡv, Qvᄡx fuzP ᄡᄡᄡᄡ mvgvRK cĀZeŪKZv cĀfuz. cwi Kí bvi dj cĀh-ev-évaqᄡb Ašᄡvq mᄡᄡ Kᄡi |

### ZZxq cĀewl R ukᄡᄡv cwi Kí bv (1985-90)

1985 mᄡj i RjvB gym ᄡᄡK evsj vᄡᄡki ZZxq cĀewl R ukᄡᄡv cwi Kí bvi ev-évaqᄡb i iᄡ nq| ZZxq cĀewl R ukᄡᄡv cwi Kí bv KZ, ᄡj v Abᄡᄡj cwi teᄡk ev-évaqZ nᄡZ i iᄡKᄡi |

### Zv nj:

1. meRbxb cĀugK ukᄡᄡvi Rbᄡ AvBwWG ceᄡ cĀZkᄡZ 44uU DcᄡRj vq KgmᄡP cwi Pj bvi ᄡvaqZ; tbq| GQovl wekᄡvsK, umWv, BDubᄡmd, BDGbwMuc 416uU DcᄡRj v I tgᄡUᄡcuj Uvb Gj vKvq meRbxb cĀugK ukᄡᄡvi KgmᄡPi A\_ᄡmsᄡᄡbi ᄡᄡᄡᄡ AvMᄡ cKvK Kᄡi |
2. gvaᄡgK weᄡᄡj q weÁvb ukᄡᄡvi A\_ᄡmsᄡᄡb GvMve (Asian Development Bank) GvMᄡq Avᄡm|
3. KviMx ukᄡᄡvi Dbᄡᄡb eᄡvcK KgmᄡPi A\_ᄡmsᄡᄡb wekᄡvsᄡKí mᄡᄡ evsj vᄡᄡk mi Kᄡi i GKvU Pᄡᄡ ᄡᄡᄡᄡ Z nq|

### **ZZxq cAewl R ukvlu cwi Kí bvi Dfí k'veij**

1. 1990 mvtj i gta" c0\_ugK we`vj tq MgbvcthvMx 70% t0tj tqtqK `dž fWZ©Kiv Ges kZvãxi tkl bvmv` mveRbxb c0\_ugK ukvlu j q" ARB Kiv|
2. ukvlu tqtqK kni I M0tgi `elg" `f-Kiv|
3. c0\_ugK, gva`ugK I Kwi Mix ukvlu ukvluKMYfK PvkZxc©I PvkZxKvj xb c0kqY c0vb Kiv|
4. weÁvb, Kwi Mix I eueGj-KukvluK hf\_vchš , iazj c0vb Kiv|
5. eq`f` i gta" we`gvb ubi qI Zvi nvi Kugtq Avbv|
6. gnvwe`vj q I mekpe`vj q chfšq ukvlu\_P fWZ©mSZ chfšq ubtq Avmv|
7. ukvlu tqtqK bvi x cjaI i gvts we`gvb `elg" nwm Kiv|

Dchš Dfí k'veij ev`evqtb ubgug uLZ tKškj , tju c0qvM Kivi mgvwi k Kiv nq:

- K. c0\_ugK we`vj tq MgbthvM" 70% t0tj tqtqK fWZ©Kivi Rb" tfšZ mjeavw` mjo Kiv| AcPq cwi nvi Kivi Rb" t0tj tqtqK` i we`vj tq aši ivLvi Dci tRvi t`qv|
- L. M0gvÁtj Aew`Z temiKvix ukvlu c0Z0vrb weÁvb ukvlu chfš mšhvM c0vb Kiv| ukvlu eue c0vrb tqtqK `vbxq, AvÁvj K, RvZxq I tR0vi wfiEK bWZgij v Abvj Y Kiv|
- M. ukvluK c0kqY c0Z0vb Qvovl Dcfrjv Ges we`vj q chfšq c0\_ugK we`vj tqi ukvluKf` i Rb" , Q (Cluster) c0kqY KgmP cwi Pvj bv Kiv| gva`ugK we`vj tqi ukvluKf` i Rb" PvkZxKvj xy c0kqYf` i e`e`v Kiv|
- N. M0gvÁtj i RbMf`Yi KgmP`vrb mšhvM mjo i Rb" KugDwbU we`vj q , tju vZ DcibšvmbK eueGj-K ukvlu`vb Kiv|
- O. tqtqK` i ukvlu Rb" Avj v`v e`e`v Qvovl we`vj tq Zv` i fWZ© Rb" Drmnv c0vb Kiv|
- P. `vbxq fite MYukvlu KgmP m`ubæKiv| Dcfrjv cwi I`fK G KgmPi cwi Kí bv I mgšq mva`bi `vqZj` I qv nq|
- Q. ukí wfiEK KgmPi gva`tg Kwi Mix ukvlu`f` i ev`e c0kqY t` I qv|
- R. eZgvb ukvlu c0Z0vrb aviy qI gZvi mefaK e`envti i Rb" c0qvRbxq tgivgZ I bevqtb Kiv R M0Y Kiv|

### **ZZxq cAewl R ukvlu cwi Kí bvi KgmPmgv**

ZZxq cAewl R ukvlu cwi Kí bvq MpxZ KgmPmgvni GKUv aviy v mvi wY- 6 t`fK ARB Kiv hvq|



**ZZxq cÄewl R ukግlv cwi Kí bvq ukግlv ደግሞ j ግግግግግግ**

ukግlv ስም	1985 ውጤት	1990 ግግግግ
1/ cÜügK ukግlv (j ግግግግግግ)	89.20	116.00
2/ gva'wK ukግlv (j ግግግግግግ)	24.83	27.50
3/ Ktj R ukግlv (j ግግግግግግ)	4.28	4.40
4/ mekte' 'vj q (nrRvi ukግlv)	38.34	43.10
(K) mavi Y (ieÁvb, Kj v cfiwz)	31.89	34.90
(L) cÜKSkj	3.08	3.70
(M) Kul	3.66	4.50
5/ Kwi Mix ukግlv (nrRvi ukግlv)	20.36	22.03
(K) cÜKSkj	3.12	3.44
(L) Kwi Mix	12.75	13.26
(M) ewEgj K	4.49	5.33
6/ emvR'K ukግlv (nrRvi ukግlv)	3.30	3.58
7/ gv' avmv ukግlv (j ግግግግግግ)	3.19	3.50
8/ DcibgmbK ewEgj-Kukግlv KugDibiU ጅmn (j ግግግግግግ)	3.54	7.56

Drm: ZZxq cÄewl R cwi Kí bv 1985-90, cwi Kí bv Kugkb, cwi Kí bv gš'vj q, MYcRvZšy ersj v' k mi Kvi, Xiv, c; 389

The Fourth Five Year Plan 1985-90, P, XV- 6

mviwY-6 G ewY j ግግግግግግ Qvovl ZZxq cÄewl R ukግlv cwi Kí bvq ukግlv Rb" vbtgጃ KgmPx, t j v MhY Kiv nq|

**cÜügK ukግlv**

1. ጅ chq AwffveK-ukግlv mvgwZ MVb Kti ጅ i e'e-rcbv I cÜvmጃ KugDibiUጃ K RvOZ Kiv|
2. DcRjv chq mnKvix ukግlv KgRZጃ vbtqvጃ Mi gva'g ጅ cwi`kጃ I cÜvmጃbi Dbqvb m'rab Kiv| cÜZ'K KgRZጃ15-20wU ጅ cwi`kጃbi Rb" `vqZ;cÜጃ nteb|
3. Qv'Qv'x I wZvgvZvጃK Drmn `vጃbi Rb" cv'eB I ukግlv DcKiY wbvgt j "mieivn Kiv|
4. eb'vq ግግግግግግ ጅ, t j vi cÜqvRbxq tgivgZ AwZwi ጃ tkYxKግ vbgጃ, tkSPvMvi I bj Kc `rcb, ጅ t j vZ teÁ, tPqv, tUwej, Avj gvix Ges Ab'vb" ukግlv DcKiY mieivn Kiv I tfsZ mጃaw` mጃ Kiv|
5. 1,95,646 Rb cÜügK we'vj q ukግlv, ukግlv cÜግግግ, cwi`kግ I ukግlv cÜvmጃKi cÜግግግግ e'e-v Kiv|
6. 1000 temi Kvix cÜügK we'vj qጃ mi Kvix e'e-rcbvq Avbqb Ges mnKvix ukግlv Awdmvi I cÜügK we'vj q ukግlv vbtqvM `vb Kiv|

### MYvkŷv

1. Dc†Rj v wfiŷEK MYvkŷv KgfŷP Pvj jKiv|
2. `vbxq Pvn`vi wfiŷ†Z cvi Kvr Z msL`K eB I vkŷv DcKiY tK>`†\_†K Dc†Rj vi gva`tg Mŷxb MYvkŷv cŷZŷ†b tcsŷ†bvi e`e`v Kiv|
3. 24 j ŷ eq`†K Aŷi Ávb `†bi cvi Kí br tbq v nq|

### gva`igK vkŷv

1. 200 gv` & vmmn 4000 gva`igK ŷe`'vj †q ŷeÁvb vkŷvi mŷhvM mŷp Kiv|
2. 400uŷ ŷe`'vj †q KigDibŷ ŷe`'vj q cK†í i AmgvB KvR 1987 m†j i R†bi g†a` tkl Kiv|
3. miKviX ŷe`'vj q, †jvi tgiŷZ I t†ŠZ mŷeavŷ i mŷhvM mŷp i j†ŷ cKí Kvhpig Pvj yivLv|
4. GKxfZ ŷeÁvb †Kvm@cŷZ† Zj wŠZ Kivi Rb` KZ, †j v ubaŷi Z temi KviX gva`igK ŷe`'vj †q ŷeÁvb vkŷvi mŷeavŷ cŷvb Kiv|

### gv` & vmv vkŷv

1. ŷeÁbv wfiŷEK vkŷv cŷZ†bi gva`tg gv` & vmv vkŷv c×wZi AvabKxKiY|
2. 200 gv` & vmv ŷeÁvb cixŷv m†j i e`e`v Kiv I hšcwmZ mieivn Kiv|

### vkŷK cŷKŷY

1. cŷigK vkŷK cŷKŷY Bbw=ŷUDU I vkŷK cŷKŷY gnŷe`'vj †qi vkŷKM†Yi Rb` ŷbqŷZ cŷKŷY Pvj yivLv|
2. meRbxb cŷigK vkŷv cK†í i Aax†b μvk tcvMŷg ŷnt†te cŷigK I gva`igK ŷe`'vj †qi vkŷK† i Rb` ŷ Qŷ cŷKŷ†Yi e`e`v Kiv|
3. gva`igK ŷe`'vj q Dbqb cK†í i Aax†b vkŷK cŷKŷY gnŷe`'vj q msj Məbqŷ ŷeÁvb vkŷv Dbqb †K†` gva`igK vkŷK† i cŷKŷ†Yi e`e`v Kiv|
4. ivsMŷgnŷ†Z cŷigK vkŷK cŷKŷY Bbw=ŷUDU `rcb I Ab`vb` cŷigK cŷKŷY Bbw=ŷUD†U i AmgvB KvR mgvB Kiv|
5. meRbxb cŷigK vkŷv cK†í i Aax†b Rq†`ectj GKŷ cŷigK vkŷK cŷKŷY Bbw=ŷUDU `rcb Kiv|
6. gva`igK vkŷK cŷKŷ†Y K†i mcb†Wŷ †Kvm@cixŷvgj-Kfv†e Pvj jKiv BZ`w` |

### gnwe`'ij q

1. meZtKvEi ukᚦvi Rb" 12uJ miKvix gnwe`'ij q Ges RvZixqKiYKZ.gnwe`'ij qmn 98uJ gnwe`'ij tqi Dbq̄b KvR AMāKvi wfiĒtZ m=úbaKiv|
2. weÁvb ukᚦvi mjeawi` cŀvᚦbi Rb" evQvBKZ.temiKvix D"P gva"ugK gnwe`'ij q Ges meZK gnwe`'ij tqi D"P gva"ugK kvLvi Dbq̄b KvR mgvᚦ Kiv|
3. meZtKvEi weÁvb ukᚦvi mjeawi` i Dbq̄ᚦbi Rb" evQvBKZ.temiKvix meZK gnwe`'ij qmgf- Avᚦiv Dbz̄ Kiv|

### Kwi Mix ukᚦv

1. cŀKŠkj gnwe`'ij q I cij ᚦUKv̄bK Bbiv= uJDU GKxfZKivi KvR Ges Kwi Mix ukᚦK cŀKᚦY gnwe`'ij tqi cᚦMᚦᚦbi KvR `āZ mgvᚦ Kiv|
2. 1985/86 mᚦj i gᚦa" gᚦv j v cij ᚦUKv̄bK Bbiv= uJDU Ges cwi Kí bᚦKvᚦj UvsMvBj I cUq̄vLv j ᚦZ cij ᚦUKv̄bK Bbiv= uJDU ᚦvcb Kiv|
3. ewEgj-KcŀKᚦY Bbiv= uJᚦU i Amgvᚦ KvR mgvᚦ Kiv|
4. 1986 mᚦj i gᚦa" Kwi Mix ukᚦv tevWᚦ KvR tkl Kᚦi GᚦK KvᚦRi Kiv|
5. ev`é AwfÁZv ARᚦbi Rb" ukᚦv\_ᚦ iᚦK ukí KviLvbi mᚦ\_ m=ú<sup>3</sup> Kivi KgᚦᚦP MᚦY Kiv BZ`w` |

### wekᚦe`'ij q ukᚦv

1. XvKv, ivRkv̄x I cŀKŠkj wekᚦe`'ij tqi ukᚦv\_ᚦ i Avev̄mK nj ubgᚦYi KvR mgvᚦ Kiv|
2. XvKv, ivRkv̄x I PÆMᚦg wekᚦe`'ij tqi weÁvb Abyᚦ` i ubgᚦY KvR mgvᚦ Kiv|
3. Bmj wugK wekᚦe`'ij tq KvR `i i ai Rb" mjeawi` cŀvᚦ Kiv Ges Ljybv I wᚦj U wefᚦM wekᚦe`'ij q ᚦvcb Kiv|
4. mKj wekᚦe`'ij tqi tgivgZ I beiᚦc `vᚦbi gva`tg fiZᚦ cwi Kwí Z nvi KvᚦRi Kiv|
5. wekᚦe`'ij q ukᚦvi mmeR cwi Kí bᚦ I Dbq̄ᚦbi Rb" wekᚦe`'ij q gÁjx KwgbᚦK kv<sup>3</sup>kvjx Kiv|
6. GZŀ`Zix QvĪewE, bᚦix ukᚦv Dbq̄b, bᚦixᚦ` i we`'ij tq I ukᚦv cŀZŀvᚦb PivKwi cŀvᚦ cfiwZ. KgᚦᚦP MᚦY Kiv nq|

## A\_@eivi

uk`lv I ag@elqK LvZi Dbqb KgmP er`evq`bi Rb` cwi Kí brq 1370 tKml UvKv eivi Kiv n`qtQ| Zb#a` 1220 tKml UvKv miKvix LvZ (50 tKml UvKv t\_vK eivi mn) Ges 150 tKml UvKv temiKvix LvZ eivi Kiv n`qtQ| miKvix LvZi eivi KZ.A`\_P gta` 40 tKml UvKv ag@gšYij`qi gva`tg e`q Kivi cwi Kí br MpxZ nq| cŰzi`lv gšYij`qi gva`tg newfbek`vWU Ktj`Ri uk`lv, K`vWU Ktj R`tgi vZ I Ab`vb` e`q ubeñ, b`vkbiy K`vWU`Kv`ii AmgvB KvR mgvB Kivi Rb` 10 tKml UvKv eivi Kiv nq| ZZxq cÅewl R cwi Kí brq uk`lv I agx@` el`tg A\_@eivi` mviW-7 G t`Lv`bv nj |

mviW- 7

### ZZxq cÅewl R cwi Kí brq uk`lv I agx@` el`tg e`q eivi (1984/85)

KgmP	UvKvi cwi gvY (tKml UvKv)	kZKiv nvi (%)
1  cŰ`igK uk`lv	538.00	44.10
2  MYuk`lv	25.00	2.05
3  gva`igK uk`lv	125.00	10.25
4  gv` &vni uk`lv	6.75	0.55
5  uk`vK cŰk`lv	1.50	0.12
6  Ktj R uk`lv	58.34	4.78
7  QvI ewE	55.00	4.51
8  Kwi Mix uk`lv	169.35	13.18
9  mekte`ij q uk`lv	100.00	8.20
10  uk`lv cwi Kí br I e`e`vcbr	11.06	0.91
11  mekte`ij qmn uk`lv cŰZôv`bi tgi vZ I Dbqb	30.00	2.45
12  t_vK eivi	50.00	4.10
(K) tgvU (uk`lv gšYij q)	1170.00	95.90
(L) tgvU (cŰzi`lv gšYij q)	10.00	0.82
(M) tgvU (ag@elqK gšYij q)	40.00	3.28
<b>me@vU(K+L+M)</b>	<b>1220.00</b>	<b>100.00</b>

Drn: ZZxq cÅewl R cwi Kí br 1985-90, cwi Kí br Kugkb, cwi Kí br gšYij q, MYcRvZšy ersj vt`k mi Kvi , XvKv, ct 386



## ሥልጠናው ላይ የሚገኙት ጉዳዮች - 2.6

### A) የሥልጠናው ዓይነት

የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል? (የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?)

- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
K. 80 ሰዓት  
L. 150 ሰዓት  
M. 190 ሰዓት  
N. 210 ሰዓት
- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
K. 70%  
L. 80%  
M. 90%  
N. 100%
- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
K. 1370 ተሳታፊ ሆኖ  
L. 1730 ተሳታፊ ሆኖ  
M. 3107 ተሳታፊ ሆኖ  
N. 7103 ተሳታፊ ሆኖ

### ለ) የሥልጠናው ዓይነት

- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
Zv ድምፅ ይሰጣል
- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
Zv ድምፅ ይሰጣል
- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
Zv ድምፅ ይሰጣል

### B) የሥልጠናው ዓይነት

- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
Zv ድምፅ ይሰጣል
- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
Zv ድምፅ ይሰጣል
- የሥልጠናው ዓይነት ለምን ዓይነት ለማድረግ ይረዳል?  
Zv ድምፅ ይሰጣል

### የሥልጠናው ዓይነት

- A) 1/ L 2/ K 3/ K

cW 2.7

**evsj vɛ́ k PZZ©cÂewil R ukʃv cwi Kí bv**

**Dɛ́i k**

GB cW tkɛI Avɔɔb-

- evsj vɛ́ k ZZXq cÂewil R ukʃv cwi Kí bvi ev`évqb mꞑútkʃej tZ cvi tɛb Ges
- evsj vɛ́ k PZZ©cÂewil R ukʃv cwi Kí bvi Dɛ́i k'vevj , tKSkj , bɔɔZgvj v , KgfɔP , A\_ams`vb weeZ Ki tZ cvi tɛb |

ZZXq cÂewil R cwi Kí bvi vɛ́tj ukʃvi mKj tɔɛ́ti mi KviX Lvɛ́Zi tgvU e`q eivɛ́ ɔQj 1,220 tKɔU UvKv hv A\_ɔɔɔzi mKj tɔɛ́tii eivɛ́ii 4.88% gvɛ́ | cwi Kí bv tkɛI 1990 mɛ́tj t`Lv hvq th , mi KviX eivɛ́ii 997.81 tKɔU UvKv (Pj ɔZ gɛ́j` ) cKZ fivɛ́ e`q nq hv eivɛ́ii 81.79% | ZZXq cÂewil R ukʃv cwi Kí bvi cKZ.e`tqi 838.17 tKɔU UvKv ev 84% cĚ\_ugK ukʃv , gva`ugK ukʃv , Ktj R ukʃv , wekɽe`vj q ukʃv (mɛ́vi Y) Ges Kmi Mix I cĚ\_KSkj ukʃv e`q nq | cKZ.e`tqi evKx 159.64 tKɔU UvKv ev 16% ukʃK cĚ\_KY , evɔɔR`K ukʃv , Mɔukʃv cĚ\_ɔZ e`q nq | mvi ɔY-8 t`tK t`Lv hvq th Kg A\_ e`q ni qv mɛ́ɛ́j cĚ\_ugK ukʃv , gva`ugK ukʃv Ges Ktj R ukʃv cwi Kí bvi Zɛ́bvq tɛk ukʃv\_ɔ fivZ`ntqɔj | tKej gvɛ́ wekɽe`vj q ukʃv (mɛ́vi Y) Ges Kmi Mix I cĚ\_KSkj ukʃv ukʃv\_x`fivZ`p j q`gvɛ́ AvRZ nqɔ | ɔKŠ` cKZ.e`tqi ɔɛ́tq t`Lv hvq th , cĚ`KɔU`ɛ́i cwi Kí bvi Zɛ́bvq Kg e`tq tɛk ukʃv\_x`fivZ`Kiv mꞑe`ntqɔj | ZZXq cÂewil R ukʃv cwi Kí bvi mɛ́dj` , tj v ɔgɛ́/c:

**cĚ\_ugK ukʃv**

1. cwi Kí bvi vɛ́tj tKvb bZb`ɛ́ cĚ\_ɔvi j` qv` bvi vKtj I G mgɛ́q 1616ɔU bZb`ɛ́`vɔZ nq |
2. cwi Kí bvi Zɛ́bvq tɛk ukʃv\_x`ukʃv cĚ\_ɔvbmɛ́t fivZ`ni qvi mɛ́hɔM tɛtqɛ́Q |
3. 1990 mɛ́tj i ɔɛ́tq cĚ\_ugK we`vj tɛ́ Mgɛ́bvɛ́hɔMx cĚ\_q 78% ukʃv\_x`ɛ́ fivZ`ntqɛ́Q |
4. Gmgɛ́q 1000 tɛmi KviX cĚ\_BgviX`ɛ́ RvZXqKi Y Kiv nq |
5. AvBɔW A\_ɔqbkZ. mveRbɔ cĚ\_ugK ukʃv cĚ\_Ki Ges RvZXqfivɛ́ A\_ɔqbkZ. mveRbɔ cĚ\_ugK ukʃv cĚ\_Ki i Kiv mɛ́vɛ́ nq |
6. th mKj`\_vbi I tɛtUɛ́v Ub Gj vKv mveRbɔ cĚ\_ugK ukʃv KgfɔP Pij yɔqɔ , Gai tɛbi 416ɔU`\_vbi I 26ɔU tɛtUɛ́v Ub Gj vKv 512 tKɔU UvKv e`q eivɛ́ii gva`tɛ mveRbɔ cĚ\_ugK ukʃv KgfɔP Pij yɔq |
7. 1987 Ges 1988 mɛ́tj i eb`vq`ɔ ɔM0` 1,752ɔU ukʃv cĚ\_ɔvbi cɽevɔb Kiv mꞑútkiv nq |
8. GQɔvɛ́ 5,825ɔU`ɛ́ i cɽevɔb Rb` tgvU 743.25 tKɔU UvKv e`tq Avɛ́iv` ɔU cĚ\_Ki i Kiv`iɛ` Kiv nq | GmKj cĚ\_Ki i tɛk fivM Kiv cieZx`mgɛ́q PZZ© cÂewil R ukʃv cwi Kí bvi Ašif` Kiv nq |  
mvi ɔY- 8

**ZZxq cĀewl R̄ ukᚲv cwi Kí bvi I evᚲbvb**

ukᚲv-ī	ukᚲv_ᚲfūZ			mi Kvix eᚲq		
	1990 mᚲj fūZ cwi Kí bvi	1990 mᚲj cĀZ.fūZ <sup>ᚲ</sup>	cwi Kí bvi Zᚲbvb cĀZ. fūZᚲ kZKiv nvi	1990 mᚲj bviMv̄ cwi Kwí Z eᚲq (tKwU UvKv)	1990 mᚲj bviMv̄ cĀZ. eᚲq (tKwU UvKv)	cwi Kwí Z eᚲqi Zᚲbvb cĀZ. eᚲqi kZKiv nvi
cū igK ukᚲv	1,16,00,000	1,16,54,886	100.47	538.00	526.91	97.94
gva igK ukᚲv	2,750,000	28,10,000	102.18	125.00	98.55	78.84
Kᚲj R ukᚲv	4,40,000	4,83,000	109.77	58.34	32.15	55.11
wekᚲeᚲᚲj q ukᚲv (mavi Y)	42,100	41,370	98.27	100.00	56.51	56.51
Kwi Miv I cĀKᚲj ukᚲv	35,263	31,812	90.21	169.35	124.05	73.25

**Drn:** ZZxq cĀewl R̄ cwi Kí bvi 1985-90 cᚲ 386, 389, The Fourth Five Year Plan 1990-95, PP XV- 5-6, XV- 23-24, XV- 28.

**gva igK ukᚲv**

1. ᚲvbn chᚲq 400 gva igK weᚲᚲj qᚲK KugDibwU ᚲᚲ wntmte Dbqᚲ Kiv nq | ZZxq cĀewl R̄ ukᚲv cwi Kí bvb Gme ᚲᚲj 1,68,000 ukᚲv\_ᚲK tckvMZ ukᚲv ᚲᚲbi j ᚲj | 1988 mᚲj i Rᚲ bviMv̄ GᚲZ 55,000 ev cwi Kí bvi 33% ukᚲv\_ᚲK tckvMZ ukᚲv ᚲᚲ qvi ci cĀi wU cwi Z<sup>3</sup> nq |
2. 79 wU mi Kvix weᚲᚲj ᚲq tkYxKᚲ, AvmevecĪ, hᚲᚲwZ, cYK mieivn ewx Kiv mᚲᚲj mᚲúᚲ i mᚲgve xZvi Kvi ᚲY wKQyKvR AmgvB ᚲᚲK hvq | PZY cĀewl R̄ ukᚲv cwi Kí bvi cᚲg eQᚲi G KvR, ᚲj v mgvB Kiv nᚲe |
3. temi Kvix eᚲeᚲcbvi gva ᚲᚲg cĀZ wZ 3,800 DᚲP weᚲᚲj ᚲq Ges 200 gvᚲ vmiq weÁvb Mᚲel YvMᚲi i wewi s wbgᚲY Kiv nq Ges hᚲᚲwZ mieivn Kiv nq |

**gvᚲ vmi ukᚲv**

1. gvᚲ vmi ukᚲv AvavᚲKxKiᚲYi Rb<sup>ᚲ</sup> 200 evQvBKZ. temi Kvix gvᚲ vmiq gva igK weÁvb ukᚲv cĀᚲi i gva ᚲᚲg weÁvb ᚲKvᚲmᚲ cᚲj b Kiv nq |
2. cwi Kí bvi Kᚲᚲj 1985 mᚲj i Zᚲbvb 20 kZvsk gvᚲ vmi Ges 37 kZvsk gvᚲ vmi ukᚲv\_xᚲewx ᚲᚲᚲqᚲ |

### gnve``vj q uk`qv

1. cwi Kí bvKvtj 99uU mi Kvix wWwM0Ktj R Ges 11uU mekpe``vj q Ktj tR tkYxK` I uk`qv\_x`aviY qgZv epx Kiv ntqtQ| GQrov AvmevecI, hšcWZ, cýK BZ`w` mieivn Kiv ntqtQ|
2. 40uU temi Kvix BvUvi wgmWtqu Ktj tR j`vefiUix newi s-Gi m`úthvi Y Kiv ntqtQ Ges I qvKRtci m`shvM epx Kiv ntqtQ|
3. m`úf`i mrgve`Zvi Rb` c0BtFU wWwM0Ktj tRi mvari Y Dbqb Ges weÁvb uk`qvi m`shvM epx Kiv m`e` nhwb|
4. mslxZ Ktj tRi Dbqb Kiv m`e` nqwb|

### mekpe``vj q uk`qv

1. mvari Y mekpe``vj q, tj vtZ 1985 mtj i Z`zbvq uk`qv\_x` fWZP cwi gvY 16% epx tctqtQ Ges Gme mekpe``vj tqi tnv`÷j, tj vtZ 1985 mtj i Z`zbvq 46% teuk uk`qv\_x`\_vKvi m`shvM m`p` ntqtQ|
2. 1985/86 mvj t`\_tK Bmj vgx mekpe``vj tqi Kihp`g`i i`æntqtQ, wKš`ZZxq cÁeml R uk`qv cwi Kí bvKvtj Ljybv mekpe``vj tqi KivR AMthi nqwb|
3. ZZxq cÁeml R uk`qv cwi Kí bvKvtj weifbamekpe``vj tq 13uU bZb wefV/Bbw`=wUDU tLjv ntqtQ| GtZ 2,253 Rb uk`qv\_x`fWZP m`shvM tctqtQ|
4. Kul. mekpe``vj tq uk`qv\_x` fWZ`e`px tctqtQ Ges tnv`÷j, tj vtZ uk`qv\_x` i mXu msl`v epx Kiv ntqtQ|

### cuj tUKwbK I gtbvtUKwbK uk`qv

1. 240 Rb QvI`mn XvKvq gunj v cuj tUKwbK KivR i i`æKti tQ|
2. mKj cuj tUKwbK (gunj v cuj tUKwbK e`ZxZ) 00Kvvi Mix uk`qv cKí -G00 Gi Aaxtb uk`qv I evm`v`bi m`shvM epx Kiv ntqtQ Ges mgx I qvKRc I ÷vd tUlbs-Gi m`shvM epx Kiv ntqtQ|
3. tUKwbK`vj uk`qv tevW`K Avd`mi `vb c0qvRbxq mi Ávgw` Ges `q Rbkiv`3 wbtqvM `v`bi gva`tg mgx Kiv ntqtQ|
4. m`úf`i mrgve`Zvi `iab UvsMvBj I cUqvlvj xZ cuj tUKwbK Bbw`=wUDU`Ui KivR mgvB nqwb|

### uk`qK c0K`qY

1. ZZxq cÁeml R uk`qv cwi Kí bvKvtj `w` c0`ugK c0K`qY Bbw`=wUDU, 17% uk`qv\_x` fWZ`e`px Ges tnv`÷j 3.33%\_vKvi `vb epx tctqtQ|
2. mveRbx c0`ugK uk`qv cKt`i i Aaxtb Rqf`ectji GKUv gunj v c0`ugK tUlbs Bbw`=wUDU `vcb Kiv nq|



փ Աե ԳԽԿԿ

3. մեՔԵԽԵ ԸՊԻԿ ԻԿՊԻ ԸԿԻԻ ԱԵԻԵ ՎԵՆ ԻԿՊԻ ԱՐԸՄԻ, ՄՆԿՎԻԽ ՎԵՆ ԻԿՊԻ ԱՐԸՄԻ, ԸՊԻԿ փ ԻԿՊԻԿԻ ԸԿՊԻԿ ԻԼՊՆՊ
4. ՐԻԶԻՊ ԳՎԱՊԿ ԻԿՊԻ ԳԵՏ ԱԵՎԵ ԸԲՊԵ ԻԿԻ՝ ԳՎԱՊԿ ԳՎԱՊԿ ԱԵՎՅՈՒԿ ԻԿՊԻԿԻ ՓՎԿԱԻ ԿԻՅ ԽԵ ԸԿՊԻԿ ԻԼՊՆՊ

### **ՔԶԾԸՊԻԿ ԻԿՊԻ ԸՄԻԿԻ ԵՆ (1990-1995)**

1990 մտյի ՐյՆԵ ԳՄ ԻՒԿ ՔԶԾԸՊԻԿ ԻԿՊԻ ԸՄԻԿԻ ԵՆ ԵՆՎՊԵ ԻԻՆՊ | Ը ԸՄԻԿԻ ԵՆ ԳԵԵ ՄՐՍԸ ԸԲՊԵԻ ՐԵ՝ ՄԻՊԻԶԻ ԻՅԻԿԻԿԻ ԸԿԻ ԵՎԿ, ԻՆՅԻ ԱՎԻՎ ԿԻՎ ՆՏՏՈ | ԸՏ ԵՎՅՆ ԻԿՊԻ ԵՎՅՆ ԸՊ ՄԱԼ ԸՏԼ ԿԻՎ ՆՊ | ՅՆՏՅՆ ԸՊԸ: ԵՅՅՆ ԻԿՊԻ ԵՎՅՆ ԿՄԻ ՄԻԽ ԻԿՊԻ ՅՅԵՎ ԻՎԻԿ ԻԿՊԻ ԸՅ ԳՎԵՊԿ ԱՎԿ ԱՎՄԻԽ ԿԻ ԻՅԻ | ՄՅԻՊ: ԵՅՅՆ ԻԿՊԻ ԵՎՅՆ ԳՎԵՊԿ ՄԳՎՐԻ ՐԵ՝ ԳՅՅ ԳՅՅ ԵՆ ԿԻ ԵԻ ԱՎԿ ԸՄԻԿԻ ԱՎՅԿՈՒԿ ԿԻ ԻՅԻ | ԸՐԵ՝ Ը ԻԿՊԻ ԸՄԻԿԻ ԵՆ ԳՄՈՄԶ ՎՊԸՅԵՎ ԵՄԻ ԿՎ ԱԵԿԻ ՎԵ ԸՏԼ ԿԻՎ ՆՏՏՈ | Ը ԸՏ ԵՎՅՆ ԻՂԻ ՄՊԻԿ ԳՎՐԻ ԱՎՎԵԿԻԿ ԳՎԵՊ ԳԵԵ ՄՐՍԸ ԸԲՊԵԻ, ԻՆՅԻԸՊԻԿ ԵՎ ԻՎԼԵ ԸՄԻԿ ԵՅ ԸՄԻԿԻ ԵՆ ԸՄ ԳՅ ԿԻԵ | ԸՏԿԵ "A new concept of manpower planning" ԵՅ ՔԶԾԸՊԻԿ ԻԿՊԻ ԸՄԻԿԻ ԵՆ ԸՏԼ ԿԻՎ ՆՏՏՈ | ԻՒԿԻ ԱՅՈՒԶԻ ՓՄՆՎ Ի ՄԻԵՎՆԿ ԱԵՏԵՆ ԻՅ ԳԵՏ ԱՎՏՐԱԶԿ ԿՅ ՓՄՆՎԻ ԸՅ ԻԼՊՅ ԻՅ ԻԿՊԻ ԸՄԻԿԻ ԵՆ ԸՅՊ ԿԻՎ ԸՄՐ ԵՅ ՔԶԾԸՊԻԿ ԻԿՊԻ ԸՄԻԿԻ ԵՆ ԸՏԼ ԿԻՎ ՆՏՏՈ | ԸՄԿՅ ՎՔՎՅԿ ԳՅ ԻՅ ԸՅՊԻԿ ԻԿՊԻ ԸՄԻԿԻ ԵՆ ՄՅՅԸ ԸՏԻԿՎԵՅ ԻՅ ԿԻՎ ՆՊ

ԵՎԱՅՅԻԿ-ԸՊԻԿ ԻԿՊԻ ԸՅՅԿ ԿԻՎ:

#### **ՔԶԾԸՊԻԿ ԻԿՊԻ ԸՄԻԿԻ ԵՆ ԸՏԻԿՎԵՅ**

1. ՄՄԻԿ ԸՅ ԿՅՏՊ ԱՎԵ;
2. ՄԿՅ ԻՅ ԱԵՎԵ ԻԿՊԻ ԵՄԻ Ի ԸԵՅ ԿԻՎ;
3. ԿՅ ԵՎՐԻԻԻ ՄԻՒ ԻՅՅԻ Ի ՄԵՊԸԶ ԻՄՄԻՎԻԿ ԳՎԱՊԿ ԿՄԻ ՄԻԽ Ի ԵՎԸԵԵ-Կ ԻԿՊԻԿ ԱՎԿԶԻ Job Oriented ԿԻ ԻՅՅՅ;
4. ԱԵԿԵՎՅՈՒԿ ՅՅՅՅ ԻԿՊԻ ԱԵԿՅ ԸՄԻԿ ԻՅՏԸ ՄԸՅ ԻՅՅՅ;
5. ԻՎԻԿ Ի ԻԿՄԶ ԱԵԿԵՎՅՈՒԿ ՅՅՅՅ ԳԵՏ ԵՎՅՆ Կ ԵԵՎՎԱԸՊԱ ԵՒԿԻՅՅ ՐԻԿ ԻԿՊԻ ԸՅԻՅԿԻԸՄԱԵԻ (Centre of Excellence) ԻԿ՝ ԻՆՏԻԿ ԻՅՅ ԻՅՅՅ;
6. ՄԿՅ ԸՅՅՅ ԱԵՎՅՈՒԿ ՄՅԻՄՅՅՅՅ ԻՅՅՅՅՅ ԵՎՅՅՅ ԿԻՎ ԳԵՏ ԻԿՊԻ ԵՎՅՅՅ ՐԵՎՅՅՅՅ ԸՅՅՅ ՓՅՅՅ ԿԻՎ;
7. ԻԿՊԻ ԵՅԸՅՅ ՄՅՅԵՎԻԿ ԱԵՎՅՅ ԸՏԻԿՎԵՅ Ի ԻԿԵ ՐԵՄԼՅՅ ԸՄԻԿԻ ԵՆ, ՄՅՅՅՅՅ ԵՄԻ ԸՅՅՅ ԻՅՅՅ ԵՎՅՅ ԿԻՎ;
8. ԻԿՊԻ ՄՅԻՄՅՅՅՅ ԵՄԻ ԻՅՅՅ ԱՎԱՅՅ Կ ԻՅՅՅՅՅՅ ԵՅՅՅ ԻՅՅՅ;
9. ԻԿՊԻ ՄԿՅ ՄՅՅՅ ԻՅՅՅՅՅ ԵՎՅՅՅ Ի ԵՎՅՅ ՆՅՅ ԸՅՅՅՅՅ ԿԻՎ;
10. ՄԳՎՐ ԸՅՅՅ ԸՅՅՅՅՅՅՅ ԻՅ ԿԻՎ

ukvivi Dtík`vevj ARþbi Rb` PZz©cÁewl R ukvivi cwi Kí bviq ubtgme<sup>3</sup> tkŠkj , tjjv  
Aej ðþbi Dci , iaZþivc Kiv nq|

**PZz©cÁewl R ukvivi  
cwi Kí bvi**

1. ht\_vchš cwi Kí bvi gva`tg we`gvb ukvivi mšhvM , tjjvi mð`envi Kiv| mungZ e`tqi gta` cð\_ugK we`vj tq teik ukvivi\_ Pfvz©Kivi j tjtj` AvaK tkYxKqj ubgþŸ Kiv| Dchš Pwñ`vi wfvÉtZ wewfbaGj vKvq ukvivi mšhvM mþó Kiv| ukviviq Šti covi nri Kgvþbvi Rb` A\_eY©cðPóv tbqv|
2. ubiŸji Zvi weið× wewfbaGj mslMŸg cwi Pvj bv Kiv| DcivbŸmbK cð\_ugK ukvivi KgfñP þRvi`vi Kti , mi Kvix MYukvivi tK>`a tjtjtK kw<sup>3</sup>kvj x Kti , GbuRI , tjtjtK msWZ Ges`ŸZvi Dbqb NwUtg ev ukvivi gššvj q ewfŸ Avq ewxKvix wewfbae cðPóv MhþYi gva`tg GtK ev`evqb Kiv hvq|
3. gva`ugK we`vj q , Ktj R , mvariY mekþe`vj q , tjtjtK Dbz Kiv , j`vefiUix I j vbtefi xi b`bzg mšhvM mþó Kiv Ges thvM`Zim=ubameÁvb ukvivi þKi e`e`v Kiv|
4. `ž I Ktj Rmgtþi ukvivi KgvŸvúï ZÉyeavb Ges cðvmibK cwi`kš , `ž I Ktj RtK cbMwZ Kti kw<sup>3</sup>kvj x I`ŸZi Kti tZvjv| GQrov gva`ugK `ž I Ktj R ukvivi , YMZ gv b Dbz Kiv|
5. `ž I GBPGmim chŸqi ukvivi mþgi cwigvRš I Dbqb Ges AvšRwZK cwigÉtj i mŸ\_ AvaybKvqþbi Rb` RvZxq ukvivi mŸg I cW`cŸK (GbuimUue) tevWŸK kw<sup>3</sup>kvj x Kiv|
6. ukvivi Ges cðvmKt`i Rb` ukvivi m=úhviY I e`e`vcbr cðkŸY KvhpŸgtK kw<sup>3</sup>kvj x Kiv|
7. mteivP ukvivi cðZôvb , tjjv , thgb mekþe`vj qmgn ubtRt`i tK tgšjij K I cðtqmMK ukvivi , iaZcY`þK>`a wntmte Mto Zþte| RvZxq `Ÿ`©chŸšMZ Ges`ŸZvi Dbqb I n`išt`i GiU LyB cðqvRbxq|
8. ewÉgj-K cðkŸY Bbw=UUDU , tjjv , `ŸZvi Dbqb RvZxq KvDwYj , cðkŸY cðZôvb cðfvzþK kw<sup>3</sup>kvj x Kti cðBtFU I mi Kvix tmþti i Pvkwi`vZv`i KvRKtgP mŸ\_ Kvhr`i m=úK©Mto tZvjv| cŸj tUKw bK ukvivi tŸtj`I Pvkwi`vZv`i mþ½ tUKw bK`vj ukvivi tevW`ev tUKw bK`vj WvBti þti þU G aiþbi m=úK©Mto tZvjv|
9. cwi Kí bv gššvj q wefvM Ges Aaxb`ms`v , tjtjtK DbzZi Dbqb KgfñP cŸqb I ev`evqb cðqvŸtK Avtiv kw<sup>3</sup>kvj x KitiZ nte| KgfñP cŸqb I ev`evqb Kvtj Aek`B AvÁij K eivti i cðZ b`vqciqvY nþZ nte| msW- ó gššvj tqi cwi Kí bv BDwbu ukvivi`q , KgfñP ev`evqb cðfvz. ubqvZ gubUi Kite|
10. cðqvRbxq mrvh` mntŸvMv cðvþbi gva`tg ukLb-tkLvtbv c×wZi gvþbvqb Ges bZb tkŠkj D`wteb I cðqm Kiv|
11. ukvivi mKj `þi bvi`i chŸß AskMhY ubwðZ Kivi mþw`š c`tŸc þbvq|
12. ukvivi mKj chŸq ukvivi I ukvivi\_xŸ i cwi þek m=úwKŸ ukviviq AskMhY Kiv|

### **bnZgvj v**

1. PZZ<sup>c</sup>ĀewmĀ R ukŋlv cwi Kí brq eva<sup>z</sup>Zvgj-K cŭ<sub>ug</sub>K ukŋlv<sup>v</sup>ᚦbi Dci , iæj t<sup>l</sup> qv nᚦqᚦQ|
2. ukŋlv tŋŋĀ mnxgZ m<sup>ú</sup>ᚦ<sup>i</sup> eúglyx e<sup>en</sup>vi, wewfbaetŋŋĀ ukŋlv<sup>i</sup> , YMZ e<sup>ea</sup>vb Kgvᚦbri bnZ tNvl Yv Kiv nᚦqᚦQ|
3. wewfbaekŋlv cŭZōᚦᚦbi mvgᚦ<sup>ᚦ</sup> cwi c<sup>Y</sup>e<sup>en</sup>vi Ges cŭqvRᚦb `ᚦ ukdU Pvj yKivi Dci tRvi t<sup>q</sup>v nᚦqᚦQ|
4. ukŋlv tŋŋĀ RvZxqKiᚦYi bnZ cwi Z<sup>3</sup> tNvl Yv Kiv nq|
5. ukŋlv m<sup>w</sup>f<sup>m</sup> Kugkb MVᚦbi gva<sup>tg</sup> gvbm<sup>ú</sup>bæ ukŋĴK wᚦᚦqM<sup>v</sup>b, mvgmRK I A<sup>ᚦ</sup>bnZKfᚦte Dch<sup>ᚦ</sup> nᚦj B tKej ukŋlvq mveimw cŭvb Kiv|
6. t<sup>ᚦ</sup>ki ukŋlv Dbqᚦb mi Kvi, GbuRI Ges RbMᚦYi m<sup>w</sup>ᚦ<sup>ᚦ</sup>j Z cŭPóv MᚦY Kiv|
7. <sup>v</sup>bxq I Av<sup>Ā</sup>uj K cwi Kí b<sup>ri</sup> gva<sup>tg</sup> mgvRᚦK KugDᚦbuUᚦK ukŋlv cwi Kí b<sup>v</sup> cŭ<sup>q</sup>b, ev<sup>ᚦ</sup>vq<sup>b</sup> cŭ<sup>v</sup>Z<sup>i</sup> m<sup>v</sup>ᚦ<sup>ᚦ</sup> m<sup>ú</sup>ᚦ<sup>3</sup> Kiv|

Dch<sup>ᚦ</sup> D<sup>ᚦ</sup>i k<sup>v</sup>evij , tKškj I bnZgvj vi Avᚦj ᚦ<sup>K</sup> PZZ<sup>c</sup>ĀewmĀ R ukŋlv cwi Kí brq wᚦᚦai Kgm<sup>w</sup>P , ᚦj v M<sup>w</sup>xZ nq|

### **cŭ<sub>ug</sub>K ukŋlv**

1. mKj wki i cŭ<sub>ug</sub>K ukŋlv AR<sup>ᚦ</sup> wbuōZ Kivi j<sup>ᚦ</sup>ŋ<sup>ᚦ</sup> eva<sup>z</sup>Zvgj-K cŭ<sub>ug</sub>K ukŋlv Kgm<sup>w</sup>P MᚦY Kiv nq|
2. <sup>v</sup>bv ukŋlv Awdm<sup>v</sup>i i wqš<sup>ᚦ</sup>Y cŭ<sub>g</sub> I wZxq tkYxi ukŋlv<sup>x</sup>ᚦ<sup>i</sup> Kó jvNᚦei Rb<sup>ᚦ</sup> wKueZ<sup>x</sup>cŭ<sub>ug</sub>K we<sup>v</sup>ij q<sup>ᚦ</sup>K tK<sup>v</sup> Kᚦi m<sup>v</sup>ᚦ<sup>ᚦ</sup>Uj vBU (Satellite) we<sup>v</sup>ij q<sup>ᚦ</sup> <sup>v</sup>cb Kiv|
3. cŭ<sub>ug</sub>K we<sup>v</sup>ij ᚦ<sup>ᚦ</sup>i tgi<sup>v</sup>gZ, AvmevecĀ m<sup>s</sup>Mᚦ, G<sup>ᚦ</sup> ᚦ<sup>ᚦ</sup>vi Rb<sup>ᚦ</sup> A<sup>ᚦ</sup>msMᚦ cŭ<sup>v</sup>Z. tŋŋĀ <sup>v</sup>bxq KugDᚦbuUᚦK <sup>v</sup>wqZ<sup>i</sup> cŭvb Kiv| <sup>v</sup>ᚦ<sup>ᚦ</sup> cwi Pvj b<sup>mn</sup> G me KivR m<sup>ú</sup>v<sup>ᚦ</sup> b<sup>v</sup>ᚦ<sup>ᚦ</sup> KugUᚦK A<sup>ᚦ</sup>e<sup>Y</sup>ᚦ<sup>ᚦ</sup>te m<sup>w</sup>ᚦ<sup>ᚦ</sup>q Kᚦi tZvj v|
4. t<sup>ᚦ</sup>šZ m<sup>ᚦ</sup>h<sup>v</sup>M m<sup>w</sup>ᚦ<sup>ᚦ</sup>i gva<sup>tg</sup> <sup>v</sup>ᚦ<sup>ᚦ</sup> mg<sup>ᚦ</sup>i ukŋlv<sup>ᚦ</sup>avi Y ŋ<sup>ᚦ</sup>gZv e<sup>w</sup>x Kiv| eva<sup>z</sup>Zvgj-K cŭ<sub>ug</sub>K ukŋlv<sup>ᚦ</sup>K mdj Kivi Rb<sup>ᚦ</sup> Gi evav<sup>ᚦ</sup> ᚦ<sup>ᚦ</sup> v<sup>ᚦ</sup>ᚦ<sup>ᚦ</sup>Z Kᚦi Zv <sup>ᚦ</sup>ᚦ<sup>ᚦ</sup> Kiv Ges S<sup>ᚦ</sup>i covi nvi ᚦ<sup>ᚦ</sup>va Kiv| GRb<sup>ᚦ</sup> mvgmRK I A<sup>ᚦ</sup>bnZKfᚦte Dŭ<sup>x</sup> KiᚦZ <sup>v</sup>bv ukŋlv Awdm<sup>v</sup>i, <sup>v</sup>bv mnKivix ukŋlv Awdm<sup>v</sup>i Ges KugDᚦbuUᚦK h<sup>ᚦ</sup> Kiv|
5. <sup>w</sup>ᚦ<sup>ᚦ</sup> cwi evi , ᚦ<sup>ᚦ</sup>vi wki k<sup>ᚦ</sup>gK<sup>ᚦ</sup> i we<sup>v</sup>ij ᚦ<sup>ᚦ</sup> Dcw<sup>v</sup>Z wbuōZ Kivi j<sup>ᚦ</sup>ŋ<sup>ᚦ</sup> m<sup>ᚦ</sup>h<sup>v</sup>M gj<sup>ᚦ</sup> (Opportunity Cost) cŭvb Kiv, M<sup>w</sup>gxb t<sup>ᚦ</sup>q<sup>ᚦ</sup> i<sup>ᚦ</sup>K BD<sup>w</sup>bdg<sup>c</sup> cŭvb Kiv Ges we<sup>ᚦ</sup>PZ wKQ<sup>y</sup>msL<sup>ᚦ</sup> K <sup>v</sup>ᚦ<sup>ᚦ</sup> i wki<sup>ᚦ</sup> i <sup>v</sup>ᚦ<sup>ᚦ</sup> i L<sup>ᚦ</sup>evi cwi ᚦ<sup>ᚦ</sup>kb Kiv|
6. eva<sup>z</sup>Zvgj-K cŭ<sub>ug</sub>K ukŋlv<sup>ᚦ</sup>K Kv<sup>ᚦ</sup>Rix Kivi Rb<sup>ᚦ</sup> f<sup>ᚦ</sup>gnxb I <sup>w</sup>ᚦ<sup>ᚦ</sup> cwi ev<sup>ᚦ</sup>i i wki<sup>ᚦ</sup> i cŭ<sup>ᚦ</sup>Z<sup>ᚦ</sup>K<sup>ᚦ</sup>K g<sup>w</sup>mK 15 tK<sup>w</sup>R Mg ev mgcwi gvY A<sup>ᚦ</sup>Ges GKB cwi ev<sup>ᚦ</sup>i G<sup>ᚦ</sup>Ki Aw<sup>ᚦ</sup>K wki i Rb<sup>ᚦ</sup> m<sup>ᚦ</sup>ev<sup>ᚦ</sup> 30 tK<sup>w</sup>R Mg ev mgcwi gvY A<sup>ᚦ</sup>eiv<sup>x</sup> Kivi cwi Kí b<sup>v</sup> t<sup>ᚦ</sup>q<sup>v</sup> nq|

7. c0\_ugKfite 00mkQvi Rb` Lv`00 KgfmPzZ GK j Q Ub Mg eivi` Kiv nq Ges cieZ#Z iki` i` i` cwi grY, mkQvi ve`iz. cfuZ. metePbvq ti tL Mtgi cwi grY Avti v epx Kivi cwi Kf bv tbi qv nq|

### DcibgymbK mkQvi

DcibgymbK mkQvi Dci PZZ©cAewil R mkQvi cwi Kf bvq mekl fite , iaZ; t` qv ntqtQ| GtZ vbgvj uLZ %ekó" mxf xZ GK uU DcibgymbK mkQvi cKf ev`bvqb Kivi Df`'vM MpxZ nq|

1. iki` i` c0i uK mkQvi e`e`v Kiv|
2. c0\_ugK mkQvi M0ci th mKj iki` AvbgybK mkQvq Ask M0Y Ki tZ cvi tebr ev Sfi co te Zv` i` Rb` DcibgymbK tgsij K mkQvi e`e`v Kiv|
3. uKtkvi-uKtkvi x` i` Rb` DcibgymbK mkQvi e`e`v Kiv|
4. eq@: mkQvi Ges
5. be` mvi` i` i` Rb` Rxebe`vcx (Continuing Education) mkQvi e`e`v Kiv|

G e`vcvfi \_vbr, BDvbqb cwi l` , GbuRI , `vbrq KvgDvbU, mgevq mvguZ cfuZ tK RuoZ Kiv nte|

### gva`ngK mkQvi

1. mkQvi gšyvj q, Avšgšyvj q KvguU, cwi Kf bv Kvgkb, mkQvteW; GbimUie cfuZ i mgštq MvZ KvguU mi Kvix I temi Kvix gva`ngK ve`'vj q, tj vtZ ve`Avb mkQvi ht`vchš cwi tek m0i Rb` c` tQc M0Y Kiv|
2. PZZ© cAewil R mkQvi cwi Kf bvKvtj ugDvbimc`vuj uU GvjKvi evnti Aew`Z ve`'vj q, tj vtZ Aa`qbi Z tqtq` i` Aog tkYx chš QvTx teZb gl Kzl Kiv|
3. M0gvA` i` gva`ngK ve`'vj q, tj vtZ Aa`qbi Z QvTx` i` cwi evni K` vi` Zv, mkQvi Zx`bvqj-Kfite D`P e`q BZ`w` metePbv Kti Ges ve`'vj q Avak cwi grY tqtq` i` Dciv`vZ vbu0ZKi tYi j tQ` QvTx DcewE` c0j b Kiv|

### gnue`'vj q mkQvi

1. mi Kvix I temi Kvix Ktj R, tj vi ve`Avb mkQvi Dbqtb j uRuoK mrvqZv c0vb Kiv|
2. gva`ngK I D`PmkQvi Av` Bi Ktj Rmgfni (B:Uvi ugvWtqU) c0vmbK cwi`k0 I GKvtWngK ZE`yavb Ki te| vWvM0I mekpe`'vj q Ktj R, tj vi GKvtWngK ZE`yavb I c0vmbK cwi`k0 Ki te RvZxq mekpe`'vj q|
3. XvKvi ugDvRK Ktj tR tfsZ AeKvWtgvMZ m0eav c0vb I PAM0g AvU©Ktj tRi Dbqb Kiv| PAM0g GKUv Mvn`©' A\_0vZ Ktj R c0Z0v Kiv Ges ivRkvx Mvn`©' A\_0vZ Ktj tRi m0u0vi Y I AvapbKvKi Y|

## nekje`vj q ukŋv (mavi Y)

1. mavi Y nekje`vj q,tj vi ukŋvMZ Dbqŋbi Rb` ukŋvi gvb ep̄x I MtelYvi mŋhvM ep̄x Kiv|
2. Rvrvxi bMi nekje`vj tq QvĪ fūZ<sup>90</sup>, Y Kivi j ŋŋ` miKvix m̄u` eivĪ ep̄x Kiv|
3. Bmj vgx nekje`vj tq MtelYvi KvR ep̄x Kiv Ges QvĪ cōZ LiP ūbæ chŋq titL ukŋv\_xŋ` i ŋK Bmj vgx `kŋvbŋvq RxeB-hvcŋb Dōy Kiv|
4. nekje`vj q,tj vi tmkbRU Kūgtq Avbr|
5. RvZxq nekje`vj q wmwMō I nekje`vj q Kŋj ŋŋi ukŋvMZ cwĪ`kŋ/ZĒyearb, ukŋvμg cōZKiY, cixŋv MŋY, wmwMŋ(cim), wmwMŋ(Avim) I gv÷vm̄chŋqi ukŋv\_xŋ` i mūwŋdŋKU cōvb cŋwZ. KvR ūbqšy Kiŋe| Kŋj R,tj vi Dci t\_ŋK XvKv, PÆMōg I ivRkivx nekje`vj ŋqi ūbqšy, ZĒyearb cŋwZ Zŋj tbqv nte|
6. XvKv, Rvrvxi bMi, ivRkivx, PÆMōg, Bmj vgx Ges Kūl. nekje`vj qŋK ukŋŋK I ukŋv\_xŋ` i Rb` ukŋv I MtelYv ŋK`<sup>2</sup> wntmte Mto ŋZvj v nte| Gme ukŋv cōZōvŋb gv÷vim, Ggūdj Ges ūcGBPwW ŋKvm̄Aa`qb/wmwMō cōvŋbi Dci ,iæZŋivc Kiv nte| AvŪvi MŋRŋqU ŋKvm̄ŋj v Kŋj ŋR m̄ubæKiv nte|
7. kvnRvj vj I Ljvbr nekje`vj tq ūeAvb ukŋvi cōZ ,iæZ; t`qv| ukŋv\_x̄cōZ e`q ūbæZg chŋq ivLv|
8. ūŋŋi i Drcv`bkxj Zv ep̄x i Rb` nekje`vj q,tj v ūewfbæwŋĪ I Drcv`bglyx tm±ŋi MtelYv cwĪ Pvj bv Ki ŋe|
9. PZz̄cĀenwĪ ŋ ukŋv cwĪ KĪ bvKvŋj GKŪv D:gȳ nekje`vj q vcb Kiv nte| G nekje`vj qūU i iæZ ukŋv m̄uŋviY, Kūl, Mōgxb Dbqŋb, v̄v̄, Ges RbmsL v cwĪ KĪ bv cŋwZ. ūel ŋq ukŋv`vb Ki ŋe|

## cŋKšj, Kwimix I ep̄ŋj-Kukŋv

1. cŋKšj nekje`vj ŋK gvōvim, Ggūdj, ūcGBPwW wmwMō cōvŋbi Ges MtelYv cwĪ Pvj bvri DcŋhvMx Kŋi Mto ŋZvj v|
2. evsj vŋ`k cŋŋȳ Bbw÷wUDU, ŋj vŋK (BIT) AeKivŋŋgvMZ fivŋe kŋ<sup>3</sup>kvj x Kŋi Mto ŋZvj v nte Ges cŋKšj nekje`vj ŋqi mŋŋ\_ Gme Bbw÷wUDŋŋi ukŋvMZ ŋhvMŋhvM ep̄x Kiv|
3. cwĪ KĪ bvKvŋj cUqūLvj x I UvŋvBŋj Kwimix Bbw÷wUDU ūbgŋy KvR mgyvB Kiv|
4. cwĪ KĪ bvri cōg`ŋeQŋi ŋKwimix ukŋv cŋKĪ ŋGi Aaxŋb Kwimix Bbw÷wUDŋŋi ŋfšZ AeKivŋŋgv, ukŋvi cōqvrBxq hšcŋwZ Ges cŋKŋy m̄yēav ep̄x Kiv|
5. cij ŋUKūbK BbwōwUDU t\_ŋK cvm Kiv ukŋv\_xŋ` i ukŋvi mŋŋ\_ PvKŋx evRvŋi i mvgĀm` ūeavb Kivi cŋPōv tbqv|

6. g#bvtUKubK BbwiUDU, tj vi ukv`x i t`tk I me`tk ckkqy t`qv Ges `vbxq ukí mgr Ges cZóvbi mvt\_ thvMthvM myp Kiv Ges ukv`ug cQvMgja Kiv|
7. eEgj-Kukqv cZóvb, tj vi ckkqyK ukv`x i PvkZx cúBi mvt\_ m`ú<sup>3</sup> Kiv|

### ukv`K ckkqy

1. mekpe`'ij tqi ukv`Kt`i Rb` AvšRZKfvte AMñi mekpe`'ij q, tj vi mvt\_ ukv`Kgv`P mebgq, ukv`MtelYv, Gvm÷vUkxc mebgq Ges tdjvktci mthvM m`p Kiv|
2. PZz`cAeml R ukv`v cwi Kí bvkvtj 00Bbw÷UDU di G`vWfvYtgU Ae mvtqY GÜ tUKtbvj wR wUvPs00 Gi avi Y qvgZv evx Kiv|
3. Kwi Mix ukv`K ckkqy Ktj R XvKv I eEgj-Kukqv ckkqy Bbw÷UDU e, ovK 0Kwi Mix ukv`v cKí0 Gi Aaxtb DbZ Kiv| wUAvB, tj vK gj`vq`bi gva`g thš<sup>3</sup>Kfvte ukv`x`aviYqvgZv evx Kiv|
4. bvtqgK (NAEM) ukv`v ckv`Kt`i e`e`vcbv ckkqyYi tK>`m`mte Mto tZvj v| GtZ mevgm ukv`v K`Wvt`i bexb ukv`Kt`i Rb` evbqv`x ckkqy c0vb Kiv|

### A\_`eiví

PZz`cAeml R cwi Kí bvg miKvix LvZ 34,700 tKvU UvKv (1989/90 mvtj i w`í g#j`e`q eiví Kiv nq| Zb#a` 2,654 tKvU UvKv ev 7.65% ukv`v I ag`elqK LvZ eiví Kiv nq| cwi Kí bvg temiKvix LvZ 27300 tKvU UvKv mebtqvm nte etj Avkven` e<sup>3</sup> Kiv nq| Zb#a` ukv`v LvZ temiKvix e`q aiv ntqQ 915 tKvU UvKv ev 3.35%| miKvix I temiKvix LvZ tgvU eiví ntqQ 3,569 tKvU UvKv hv mgM0A\_`mZtZ miKvix I temiKvixfvte tgvU A\_`eiví i 5.76%| temiKvix LvZi A\_`P Drm nte KvgDvbiLi Ask MñY, `vbkxj e`v`i Ae`vb, GbvrI t`i Ae`vb cfvZ| PZz`cAeml R ukv`v cwi Kí bvg ukv`v I agv`elq miKvix e`q eiví mviwY- 9 Gi gva`g t`Lv`bv ntjv| mviwY- 9 t`K t`Lv hvq th, miKvi me`cqv temk A\_`eiví ti tL tQ c0`ugK ukv`v Rb` Ges AZci, iaZj c0vb Kti tQ gva`ugK ukv`vK|, iaZj w`K t`K mekpe`'ij q ukv`v `vb ZZxq, gvme`'ij tqi `vb PZz`Ges DcvbgvmbK ukv`v i tqtQ cÁg `v`b|

**ukv`v Rb` A\_`  
mslMñi Drmmgr**

**ጠቅላይ - 9**

**የፖሊሲ አፈጻጸም ስራዎች ለ ልማት ወቅት ማኅበራዊ ጥቅም (1989/90 ጠቅላይ ስራዎች)**

የሥራው ስም	የሥራው ዓይነት	ጠቅላይ (የሥራው ዋጋ)	%
<b>A</b>	ጠቅላይ		
	1. የሥራ ጠቅላይ		
	(K) የፖሊሲ አፈጻጸም ስራዎች	778.51	
	(L) የሥራ ጠቅላይ	649.65	
	ጠቅላይ	1428.16	53.73
	2. የሥራ ጠቅላይ		
	(K) የፖሊሲ አፈጻጸም ስራዎች	123.57	
	ጠቅላይ	123.57	4.65
	3. የሥራ ጠቅላይ		
	(K) የፖሊሲ አፈጻጸም ስራዎች	194.05	
	(L) የሥራ ጠቅላይ	221.76	
	ጠቅላይ	415.81	15.64
	4. የሥራ ጠቅላይ		
	(K) የፖሊሲ አፈጻጸም ስራዎች	7.38	
ጠቅላይ	7.38	0.28	
5. የሥራ ጠቅላይ			
(K) የፖሊሲ አፈጻጸም ስራዎች	106.49		
(L) የሥራ ጠቅላይ	64.57		
ጠቅላይ	171.06	6.44	
6. የሥራ ጠቅላይ			
(K) የፖሊሲ አፈጻጸም ስራዎች	77.14		
(L) የሥራ ጠቅላይ	250.85		
ጠቅላይ	327.99	12.34	
7. የሥራ ጠቅላይ			
(K) የፖሊሲ አፈጻጸም ስራዎች	81.98		
(L) የሥራ ጠቅላይ	1.07		
ጠቅላይ	83.05	3.12	
8. የሥራ ጠቅላይ			
(K) የፖሊሲ አፈጻጸም ስራዎች	9.00		
ጠቅላይ	9.00	0.34	
9. የሥራ ጠቅላይ			
(K) የፖሊሲ አፈጻጸም ስራዎች	9.50		
ጠቅላይ	9.50	0.36	
10. የሥራ ጠቅላይ			
(K) የፖሊሲ አፈጻጸም ስራዎች	4.54		
(L) የሥራ ጠቅላይ	40.94		
ጠቅላይ	45.48	1.71	
	ጠቅላይ	2621.00	98.61
<b>Av</b>	ልማት ወቅት		
	(K) የፖሊሲ አፈጻጸም ስራዎች	8.69	
	(L) የሥራ ጠቅላይ	28.31	
	ጠቅላይ (ልማት ወቅት)	37.00	1.39
	<b>ጠቅላይ A+Av</b>	<b>2658.00</b>	<b>100</b>

Drm: The Fourth Five Year Plan 1990-95, Planning Commission, Ministry of Planning, Government of The People's Republic of Bangladesh, Dhaka, 1995, P. XV-29



### চূড়ান্ত প্রশ্ন- 2.7

#### A) উদ্ভূত প্রশ্ন চিহ্ন

মিল্ক ডেইরি খুঁড়ি গজ-ক এফিল্ডিউজি এফিল্ডিউজি কিউ (ডিউনিই: এনসবি উদ্ভূত ডেইরি উওউ নতই গজি (ক) এফিল্ডিউজি কিউ)

- 1/ ZZxq cÂeml R ukñi cwi Kí bñq RvZxqKi YKZ. temi Kvix cÜügK ue`vj tqi msL`v uQj  
K. 546 uJ  
L. 1000 uJ  
M. 1320 uJ  
N. 2140 uJ
- 2/ PZz©cÂeml R cwi Kí bñq mi Kvix I temi Kvix LvZ ugñj tq ukñi Rb` KZ kZisk A\_©eiví Kiv nq?  
K. 5.76%  
L. 7.65%  
M. 8.35%  
N. 9.40%
- 3/ PZz©cÂeml R cwi Kí bñq cÜügKfvte úúukñi Rb` Lv`úú KgñiPtZ KZ j ñ Ub Mg eiví Kiv nq?  
K. uZb j ñ  
L. AvU j ñ  
M. `B j ñ  
N. GK j ñ

#### A) মসুদ ডেইরি চিহ্ন

1. ZZxq cÂeml R cwi Kí bñq gnue`vj q ukñi tññí thme KgñiP ev`éñqZ nñqñQ Zv uñ Lñ
2. PZz©cÂeml R ukñi cwi Kí bñq gva`ugK ukñi tññí MññZ KgñiP Dtj - L Kiab
3. ukñi A\_©ms`vñb PZz©cÂeml R cwi Kí bñq uPññZ Drm, tññ ueeZ Kiab



**B) iPbvqj-K cĳæ**

1. ZZxq cĳæwĳ R ĳkųv cwi Kĳ bvq cĳwĳK I ĳekųe`vj q ĳkųv Ges ĳkųK cĳkųųY AwRZ mvdj` ,tj vi ĳei Y w` b|
2. PZZcĳæwĳ R ĳkųv cwi Kĳ bvq ĳkųv mųúųKth` wĳ μwĳi K\_v ej v nųqųQ Zv Dtjĳ Kiab| GųZ ŐŐA new concept of manpower planningwĳ ej ųZ ĳK terSvųbv nųqųQ e`vL`v Kiab| PZZcĳæwĳ R ĳkųv cwi Kĳ bvq ĳkųvųųųųĳ thme ųKųkj I bwwZ Aeųųųbi K\_v ej v nųqųQ Zv ĳeeZ Kiab|
3. PZZcĳæwĳ R ĳkųv cwi Kĳ bvq cĳwĳK I DcvbųwĳbK ĳkųvųųųųĳ MųxZ KųųųP Dtjĳ Kiab| Gme KųųųP wĳiųųi Zv` ĳKĳųY KZUv mrvqK wĳj tm mųúųK GKuU mgvųj vPbvqj-K cĳŪ wĳ Lųj|

**mĳK Dĳi**

- A) 1| L      2| K      3| N

**cW 2.8**

**evsj vř`tki cÂg cÂewl R ıkrıv cwi Kıbv**

**Dřık**

GB cıW tkřl Avırb-

- evsj vř`tki PZz`cÂewl R ıkrıv cwi Kıbvı ev`evqb chřj vPbv KıtZ cviřeb;
- PZz`cÂewl R ıkrıv cwi Kıbvı gıřS MıxZ ıřewl R ıkrıv cwi Kıbv eYřv KıtZ cviřeb Ges
- evsj vř`tki cÂg cÂewl R ıkrıv cwi Kıbvı Dřık`veıj , tKřkj , bıwZgvj v, KgřıP I A`eivı m`uřK`ej řZ cviřeb|

tKıv ř`tki mvgıRK I A`ıbwZK AMıhi Zvi gjıřıE nřjv ıkrıv| evsj vř`tk ıkrıvı cwi Kıv Z Dbřřbi j řř 1990-95 mřj th PZz`cÂewl R cwi Kıbv MıxZ nq ZıřZ ıkrıvLvřZ řgvU 2,658 tKıvU UvKv (1989/90 mřji ıřı gřj) eivı Kiv nq| ıKř`Gıwıci gıvřg ıkrıvLvřZ eivıKZ.Ař\_P cwi gıY ıQj 3,866.74 tKıvU UvKv (Pj ıwZ gřj) hv cwi Kıbvı Zřbvq 45.48.% teık| Gıwıci KZR eivıKZ.Ař\_P gřa`cKZřıře e`q nq 3,372.06 tKıvU UvKv (Pj ıwZ gřj) hv cÂewl R cwi Kıbv e`q eivıřı Zřbvq 26.86% teık Ges Gıwıci eivıKZ.e`řqi 87.21%| mııY -10 G PZz`cÂewl R cwi KıbvKřj PııU Dcřmııı ev LvřZı e`q eivı, Gıwıci eivıKZ.e`q Ges cKZ.e`q ř`řK ř`Lv hvq th, Gıwıci eivıKZ.e`q Ges cKZ.e`q cwi Kıbvq eivıKZ.e`řqi Zřbvq h\_vıřg 53.64% I 35.10% teık|

mııY- 10

**PZz`cÂewl R ıkrıv cwi Kıbvq e`q eivı I cKZ e`q (ıgvı qb UvKv)**

Dcřmıııgn-	cwi Kıbv e`q eivı (1989/90 mřji ıřı gřj)	Gıwıci KZR e`q eivı (Pj ıwZ gřj)	cKZ e`q (Pj ıwZ gřj)	cKZ e`q Gıwıci eivıřı % ııřmře
1. cĀıgK ıkrıv	14281.68	24216.48	20307.40	83.86
2. gıvıřgK/D`P gıvıřgK ıkrıv	5868.70	9521.00	9375.60	98.47
3. mekře`ıj q ıkrıv	3279.90	2303.20	2289.10	99.31
4. Kwi Mıx ıkrıv	830.00	1232.51	804.40	65.27
<b>řgvU</b>	<b>24260.28</b>	<b>37273.19</b>	<b>32776.50</b>	<b>87.94</b>

Drm: Compiled From The Fifth Five Year Plan 1997-2000, Planning Commission  
GOB, Dhaka, P. 428, 430, 440.

PZz©cAeml R ukŕv cwi Kí bvi ev-évmqZ I Aev-évmqZ wí K, tŕv ubtP Dŕj k Kiv nj :

### **cŰugK ukŕv**

1. cŰugK ukŕvi tŕŕŕ cwi Kí bvi Zŕbvq cKZ.e"q 42.19% tenk ntqtQ| Zte Avŕiv tenk e"ŕqi mŕŕhM \_vKv mŕÉj| Zv ev-évmqZ Kiv hvq ub|
2. PZz©cAeml R ukŕv cwi Kí bviq eivŕŕi Zŕbvq cKZ.e"q tenk nlqvi `iab cŰugK ukŕvq mŕúófvŕte Gi dj vdj (mvi wY-11) cwi j wŕZ nq|
3. cŰugK ukŕvi tŕŕŕ ukŕv cŰZôvb I tgvU ukŕv\_ŕ fivZŕ cwi gvY hŕ\_ó cwi gvŕY ewx tctqtQ|
4. cŰugK ukŕvq Qvŕŕ`i Dcw`wzi cwi gvY Dŕj k thvM`fvŕte ewx tctqtQ|
5. ukŕvi Rb" Lv" KgŕŕP cŰugK we`vj tŕ ukŕv\_xŕ cwi gvY ewx Kŕi tŕ Ges Sŕi covi nvi nŕm tctqtQ|
6. cŰugK ukŕvi tŕŕŕ cŰg I wŰZxq tKŕxhŕ mŕŕUj vBU `ŕj i mdj Zv I cksmvi `vex ivŕL| GŕZ ukŕv\_xŕDcw`wzi nvi wŰj kZKiv 100 fivM|
7. webv gŕj" cŰugK we`vj tŕi ukŕv\_xŕ`i 77.29 wgvj qb tmU cvW" cŕK mieivn Kiv nq|
8. GbwRI ōi gva"tg 3,10,000 e"ŕŕŕK DcvbŕmbK ukŕv cŰvb Kiv nq Ges Pvi j ŕŕ ŕkiŕK `ŕj fivZKiv nq|

### **DcvbŕmbK/MŕYukŕv**

1. cwi Kí bviŕtŕj Gwŕŕc-i gva"tg 82.73 tKwU UvKv ubi ŕŕi Zv `ŕKivŕY e"q nq|
2. ōŌMŕYukŕv KgŕŕPi ōŌ Aaxŕb 11-45 eQi eq` 367660 Rb ubi ŕŕi e"ŕŕŕK mŕŕŕi Zv `vb Kiv nq|
3. ōŌmgŕŕŕZ DcvbŕmbK ukŕv KgŕŕP mŕúŕŕi YŌŌ Gi gva"tg 69 wU \_vbvq DcvbŕmbK ukŕv Pvj yKiv nq|
4. 192 wU GbwRI i gva"tg `ŕ ZZxqvsk mgŕŕŕZ DcvbŕmbK ukŕv KgŕŕP mŕúŕŕi Y Kihŕŕg ev-évmqZ ntqtQ Ges GK ZZxqvsk ev-évmqZ ntqtQ cŰZ tŕj vq GKRb mgŕŕŕKvixi mivmŕi ZÉŕeavŕb|

5. tRjv ckvmtbi gva`tg jij gubinvU I tfijv tRjvq 00mvguMK mrvjiZv Avt>`vj b00  
KgRr iiaKiv ntqtQ|

**PZz©cÁewl R ukŕv cwi Kí bvq ARB:**

Dcŕm±i mgn	1990	1995	1995 G kZKiv ewx i cwi gvY
1. cŕugK ukŕv K) cŕugK we`ij q `vcb L) tgvU ukŕv_x©fiZ© M) Qvŕ fiZ© N) Qvŕx fiZ© o) tgvU ukŕv_x© gŕa` Qvŕxi kZKiv nvi (%)	47241 12051172 6662427 5388745 44.72	59894 17284113 9094489 8189624 47.38	26.78 43.42 36.50 51.98 5.95
2. gva`ugK ukŕv K) gva`ugK ukŕv cŕZŕvbi msL`v L) ukŕv_x©fiZ©	10448 3000000	13255 4400000	26.87 46.67
3/ Kŕj R ukŕv K) ukŕv cŕZŕvbi msL`v L) ukŕv_x©fiZ©	848 900000	1667 1460000	96.58 62.22
4. wekŕe`ij q ukŕv K) ukŕv_x©	34902	60000	71.91
5. Kwii Mix I ewEgj-Kukŕv K) ukŕv_x©fiZ©	6735	11915	76.91

Drm: The Fifth Five Year Plan 1997-2002, Planning Commission, P. 428, 430-431.

**gva`ugK/D`P gva`ugK ukŕv**

1. eva`Zvgj-K cŕugK ukŕv KgŕiPi dtj ewaZ gva`ugK ukŕv\_ŕ`i `vb msKŕvb Ges gva`ugK I D`P gva`ugK ukŕvq Qvŕxŕ`i AskMŕY wvŕŕZKItŕYi Rb` gva`ugK I D`P gva`ugK ukŕv chŕq e`vcK KgŕiP MŕY Kiv nq|
2. gva`ugK I D`P gva`ugK ukŕvi tŕŕŕ PZz©cÁewl R ukŕv cwi Kí bvq eiŕŕi Zŕbvq 62% AwZwi ³ A\_©GwMŕcZ eivŕ Kiv nq|
3. GwMŕcŕi gva`tg eivŕKZ.Aŕ\_P 98% gva`ugK I D`P gva`ugK ukŕvLvZ e`q Kiv m=ŕ nq|
4. 1990 mŕŕj i Zŕbvq 1995 mŕŕj gva`ugK ukŕv cŕZŕvbi msL`v 27% Ges D`P gva`ugK Kŕj ŕRi msL`v 96% ewx cvq|
5. cwi Kí bvKŕj gva`ugK ukŕvi tŕŕŕ 47% Ges Kŕj ŕR 62% ukŕv\_x©fiZ©ewx cvq|
6. cŕZi ŕv gŕŕyŕ ŕqi gva`tg weŕfbæK`vŕbŕgŕU Gj vKiv gva`ugK, D`P gva`ugK ukŕv cŕZŕvbi m=ŕŕvi Y I Dbŕŕbi cwi Kí bv ev`ŕvqb Kiv nq|

### **mekpe` `vj q uk`lv**

1. mekpe` `vj q PZz`cAevml`R uk`lv cwi Kibvi Zjbvq GmWnc-tZ Kg A\_`eivl` t` lqv nq (mviWY-10) Zte GmWnc eivt`i kZKiv 99% A\_`e`q Kiv nq|
2. 1990 mvtj i Zjbvq mekpe` `vj q, tj vtZ uk`lv\_x`fWZP cwi gvY 72% (mviWY- 11) epx` cvq|
3. Ljybv l kvnRij vj mekpe` `vj q 1995 mvtj h\_vmtg 890 l 1800 Rb uk`lv\_x`fWZ`nq|
4. mvaviY mekpe` `vj q, tj vtZ uk`lv\_x`f cwi gvY mvgvb` epx` cvq, Zte Kul` mekpe` `vj q l c`KSkj mekpe` `vj q uk`lv\_x`f cwi gvY 1990 mvtj i gZB t`tk hvq|
5. mvaviY mekpe` `vj q mgtn GKvtWngK Pvc Kgv`bvi Rb` RvZiq mekpe` `vj q `vncZ nq| WMMO KtjtRi uk`lv\_x`f i cix`lv MhY, ubqSy, mb` cI cOvb, cwi`kO, ZE`yavb Ges Ktj Rmgtni mekpe` `vj q ch`qi uk`lvi gvb Dbqb c`fWZ. RvZiq mekpe` `vj q i ASf` nq|

### **Kwi Mix uk`lv**

1. Kwi Mix uk`lvi t`qt` PZz`cAevml`R cwi Kibvi e`q eivt`i Zjbvq GmWnc-tZ AwaK e`q eivl` Kiv nq| uKŠ` GmWnci eivt`i gvI 65% A\_`c`KZfite e`q nq (mviWY- 10)|
2. 1990 mvtj i Zjbvq 1995 mvtj Kwi Mix l eW`Egj-K uk`lvi t`qt` uk`lv\_x`fWZP cwi gvY 77% epx` (mviWY- 11) cvq|
3. `q Kwi Mix Rbkv` m`bi Rb` cwi KibvKvtj 13uW Kwi Mix l eW`Egj-K Kg`mP ev`lvqb Kiv nq| GtZ t`tk l vet`tk uk`lv\_x`f i PvkZxi m`hvm epx` cvq|

### **w`ewml`R cwi Kibv (1995-97)**

w`efbæKvi`Y PZz`cAevml`R cwi Kibvi mgvBKvtj ZrKijxb miKvi bZb cAevml`R cwi Kibv c`yqb Ki-tZ cvt`ub| ZiB 1995/96 Ges 1996/97 A\_`eQt`i A`vqx w`fWtZ` `qU ewml`R cwi Kibv MpxZ nq| GB mgqtK cAg cAevml`R cwi Kibv 00uWewml`R cwi Kibv QyJ ev weivZ`O w`tmte AvL`vngZ Kiv ntqtQ| w`ewml`R uk`lv cwi Kibvi c`g eQt`i PZz`cAevml`R cwi Kibvi AmgvB 63uW cK`i Ges bZb 25uW cK`i ev`lvqtbiDt``vM tbqv nq| GtZ 1,305 tKvU UvKv e`q nq| 1996/97 A\_`eQt`i 1,584 tKvU UvKv e`q uk`lv t`qt` 98uW cK`i MhY Kiv nq| G mgq Kvtj 49uW cK`i mgvB Kiv nq Ges 48uW cK`i cAg cAevml`R uk`lv cwi KibvKvtj mgvB Kivi j`q` w`ba`Y Kiv nq| GtZ 6uW weAvb l ch`y` mekpe` `vj q `vctbi Ges c`v`gK, gva`v`gK l eW`Egj-K/Kwi Mix uk`lv Dbqtb c`lavb` w`tq Kg`mP MpxZ nq|

### cĀg cĀewl R ukŋv cui Kíbv (1997-2002)

1997 mij t\_#K cĀg cĀewl R ukŋv cui Kíbv ev`evqb iia nq| cĀg cĀewl R ukŋv cui Kíbv D#í k'veij nj :

**cĀewl R ukŋv  
cui Kíbv D#í k'veij**

1. 2002 mvtj i gta` 70% Ges `k eQti i gta` 100% mvŋi Zv ARB Kiv|
2. m#e` `f Zg mg#qi gta` 6-10 eQi eq#mi mKj iki#K Avb#mbK cĀ\_ugK ukŋvi Aax#b Avbqb Kiv|
3. \_vbn ch#q Kwii Mix Ges ey#Egj-K ukŋv v#bi cĀZ#mbK m#hvm m#ó Kiv|
4. ukŋv e`-vi mKj ch#q m#avi Y/veÁvb/Kwii Mix/ey#Egj-K ukŋv ve`Z. I Db# Kiv hv#Z Db#b P`vtj Á Kv#Ri f#te tgvKvej vi Rb` Ávb#b f#P mgv#Ri w#f#E `vcb Kiv hvq|
5. Kwii Mix I ey#Egj-K ukŋv I t#i#b#K Avf`š#i xY I AvšRv#ZK P#K#x evRv#i i m#\_ #bq#Z I h#\_vch# m#hvm i ŋvi gva`tg Kv#Ri Kiv; Ávb#K Kw., iki I Ab`vb` Drcv`b t#ŋ#Ī cĀq#M Kiv|
6. mKj ch#q ve`g#b ukŋv m#h#M#i m#`envi #b#DZ Kiv|
7. m#avi Y I tckvMZ nek#e`ij q Ges ch#y# Bb#=#UDU#K D`P ukŋvi tk# tK#`# Db#Z Kiv|
8. ukŋvi e#g#x m#e#b#K m#gv#RK m#PZbZv ey#x, D#`v#v m#ó I K#gD#b#U#i cĀZ m#v#y#Z %Z#i#Z e`envi Kiv|
9. ukŋvi m#hvm m#ó#Z Av#Wj K f#v#vg` i ŋv Kiv w#tk#Z D#iv#Āj I c#eZ` G#v#K#i cĀZ tLq#j ivLv|
10. ukŋvi mKj t#ŋ#Ī g#nj v#`i AskM#h#Y ey#x Kiv, c#j#d I b#v#i ukŋv m#h#M#i `elg` K#gt#q Avbv|
11. ukŋv cĀZ#vb m#ó#Z temi Kv#x LvZ I K#gD#b#U#i AskM#h#Y#K D#m#v#Z Kiv|
12. D`P gva`ugK ve`ij q R#v#x#q#i#Y#i b#v#Z ch#j vPbv Kiv|
13. `vbx#q ms`v\_#tj vi m#ú#Z#v#i gva`tg ukŋv cĀZ#vb\_#tj vi e`-vcbv Db#Z Kiv|
14. gv`&v#v ukŋv#K Av#j#K I Db#Z K#i veÁvb I ch#y# g#x Kiv|
15. cĀ\_ugK I gva`ugK ch#q kv#v#i K Ges `v` ukŋv Db#Z Kiv|
16. f#j I Drcv`b#x#j b#v#i#K w#t#m#e M#to t#Z#j vi j#ŋ# Q#v#t#`i `w#q#j I KZ# m#ú#b#Ges m#gv#RK m#PZbZv m#ó Kiv|
17. gva`ugK I D`P gva`ugK ukŋv tev#W#KZ#R. M#p#x#Z c#x#ŋv e`-v ch#j vPbv Kiv|
18. D`P ukŋv#q f#v#Z#K t#g#v #b#f#P I D`P ukŋv#K Cost Effective Kiv|
19. mKj cĀm#Z#K t#ŋ#Ī tckvMZ ukŋv I cĀk#ŋ#Y ey#x Kiv|

Dchʒ Dfík`veij ARʒi j tʒ` cwi Kí brq ubʒPi tKʒkj , tʒv MhʒYi Rb` mgvwi k Kiv nq:

**ukʒv cwi Kí bvi  
tKʒkj mgn**

1. सकल ग्राम एवं महल[ीय (शहर एलाकाय) बाध्यताम]j-K, mgnvb mʒubʒGes A%eZwbK c0\_ugK ukʒvi mʒhvM mʒpi j tʒ` c0\_ugK ukʒvi Dci mevʒcʒv , iaZj t`qv nte| G Dfík` vqx we`vj q `Zwi Kiv nte| ukʒv I KugDwbUj mg\_ʒb mʒvʒUj vBU we`vj q c0Zw0Z nte hvʒZ Kʒi M0g ev gnj vi RbMYʒK Zv`i t0tʒ tʒtʒ iʒK c0\_ugK ukʒv j vʒfi Rb` thb `ʒ wevi s `Zwi chʒAʒcʒv KiʒZ br nq|
2. mveR mʒvʒi Zvi Rb` GKUv RvZxq Avʒ`vj b Mto tZvj v nte| G Dfík` GbwRI , KugDwbU Ges mʒav tʒvMkviʒ`i c0P0vi mʒ\_ miKvi x mʒú` mshʒ nte|
3. gva`ugK I D`P chʒqj ukʒv weÁvb, chʒʒ ubʒʒ Ges evʒgʒ-K Kiv nte| G Dfík` ukʒvug cwi eZ0 KiʒZ nte, MʒelYvvi `vcb KiʒZ nte Ges Ab`vb` c0qvRbxq ukʒv DcKiY mieivn I tgambʒʒ fivZ0bw0Z KiʒZ nte|
4. t`ke`vcx c0\_ugK I gva`ugK `ʒi ukʒKʒ`i Rb` e`vcK I ubqvgZ c0kʒvY KgnʒP MhʒY Kiv nte|
5. c0\_ugK I gva`ugK we`vj q Ges c0Z0vʒbi e`e`vcbvq `vbxq miKvi ms`v , tʒ vʒK evaZ nʒi mʒú` Kiv nte|
6. GmGmim Ges GBPGmim-i ukʒvug I weIqe` hʒMvcthvMx I AvaybKvqʒbi Rb` GbwvUwe tK tckvMZfvʒe kvʒ x Kiv nte|
7. ukʒv I ukʒv c0vmKʒ`i ukʒv mʒúhvY I e`e`vcbvqʒ-K c0kʒvY KgnʒPʒK kʒ vʒvEi Dci c0Zw0Z Kiv nte|
8. ukʒvi mʒevʒ chʒq A\_ʒ wekʒe`vj q I chʒʒ Bbw÷UDU , tʒ vʒK tgʒvʒ K I c0tqvMK MʒelYvi tK` vntmʒe Mto tZvj v nte| Kiv`mʒú` tʒ Gme c0Z0vʒbi `vqZʒxj ZvI mʒp Kiv nte|
9. wekʒe`vj qmgʒni, weʒkIz weÁvb I chʒʒ wekʒe`vj qmgʒni MʒelYv I Dbqʒ gʒx KivʒgʒK Drcv`bgʒx tmʒʒi mʒ\_ mʒú` Kiv nte| weÁvʒbi AMMwZ I chʒʒi Dbqʒb t`tk OqvU bZb wekʒe`vj q `vcb Kiv nte| wekʒe`vj tʒi ukʒKʒ`i Rb` t`tki evntʒi e`vcK c0kʒvYi e`e`v tbqv nte|
10. Dchʒ e`e`vcbv Ges we`gvb mʒhvM mʒúhvʒYi gva`tg wevʒbʒtckvMZ ukʒv I c0kʒvYi (thgb- dvBs Kve, AvB im Gg G, AvB B we cʒvZ) Dbqʒb Kiv nte|
11. wevʒbʒBbw÷UDkb I ukʒKʒ`i KvRKg`mʒúwKZKiv nte Ges miKvi x Avv`R mvgʒ\_ʒ mʒ\_ mshʒ Kiv nte|
12. Dchʒ cwi Kí bvi gva`tg c0\_ugK `ʒi we`gvb mʒhvM , tʒ vi meʒaK e`envi vbw0Z Kiv nte|
13. c0\_ugK I gva`ugK `ʒi Stʒi covi nvi KgvʒZ Ges vbaZg chʒq Avbri Rb` h\_vh\_ c`ʒc tbqv nte|





- Q. **fvimg`cY`e`e`v:** uk`qvi , YMZ gvb ubwDZ Kivi Rb` mKj `ti uk`qK QvT AbgvtZi fvimg`nxbZv Ges meAvb I emYR` uk`qvi t`qT` uk`qK `fZv `i KiZ nte | GKBfite c0KSkj x-tUKubkqvb Ges Wv<sup>3</sup>vi -bvm`AbgvtZi ht\_vch` KiZ nte |
- R. **gv`&vuv uk`qvi AvajbKvqb:** `vLj I Avij g ch`qi gv`&vuv uk`qvi Abgvt ch`j vPbvi gva`tg GmGmim/GBPGmim ch`qi gZ MhYthvM` meAvb I ch`y<sup>3</sup>MZ wfiEi Dci c0ZwDZ KiZ nte |
- S. **uk`qvi Rb` Lv`:** mgvtRi `wi`a tkYxi gvby hvZ Zv`i t0tj tqtq`i `qj cvVtZ cvti tm Dti`k` uk`qvi Rb` Lv` KgmP MhY Kiv ntqtQ | GB KgmP Avtiv m`u`thvi`yi cte`Bnvi e`e`vcbvi Abgvt ch`j vPbv nI qv DvPr |
- T. **vbitc`qZv I mgZv:** tgav wfiEK , YMZ uk`qvi Dbqtb gva`igK I D`P ch`q tgavi wfiE`Z uk`qv\_xfv fvZ`nte |
- U. **`wi`a uk`qv\_x` i mnvqZv:** Kv`WU Ktj R, mekpe`'vj q Ktj R I GKB aitbi Ab`vb` uk`qv c0Zovtbi `wi`a uk`qv\_x` i Avv`R mnvqZv `vb KiZ nte |

Dcti ewYZ Dti`k`vevj , tKSkj I bvxZgvj vi AvwZ`K cAg cAeml`R uk`qv cwi Kí bvg wbtg<sup>3</sup> KgmP MhY Kiv ntqtQ:

### c0`ugK uk`qv

0mevi Rb` uk`qv ubwDZKi`yi j`q` mi Kvi GKw RvZxq Kg`cwi Kí bv MhY Kti`q | c0`ugK uk`qv`K `qUv j`q` eva`Zvgj-K Kiv ntqtQ | Zv ntj v: (1) mgvM`Kfvte (Gross) uk`qv\_x`fvZ`110% G DbwZ Kiv; (2) 2002 mtj i gta` 75% uk`qv\_x` c0`ugK uk`qv mgvBi j`q`gvT ARB Kiv | GZ0`ZvZ c0`ugK uk`qv t`qT` wbtg<sup>3</sup> KgmP , tj v MpxZ ntqtQ:

1. c0qvRvblyvqx c0Z`K Mdtg GKw Kti c0`ugK me`'vj q `vcb Kiv nte |
2. mi Kvi x c0`ugK me`'vj tq 47,000 AvZwi<sup>3</sup> tkYxK`q wbgv` Kiv | QvT msL`vi Dci wfp` Kti AvZwi<sup>3</sup> tkYx K`q t`qv nte | c0Z`K me`'vj tq Kgct`q 5w tkYx K`q \_vKte |
3. c0`g I w0Zxq tkYxi Rb` 20,000 m`vtUj vBU `qj `wicZ Kiv hv gvnj v uk`qKt` i mnvth` cwi Pvi Z nte | cieZx`Z `vbxq Pvin`vi wfiE`Z wKQym`vtUj vBU `qj`K c0`ugK me`'vj tq Dbqb Kiv nte |
4. th mKj Gj vKvq KvgDwbw `qj tbB tmLvtb KvgDwbw wfiEK 5,000 temi Kvi x c0`ugK me`'vj q `vcb Kiv nte | mi Kvi Gme me`'vj tqi uk`qKt` i teZb fvZv c0vb Kite |
5. c`bi nvRvi mi Kvi x c0`ugK me`'vj q c`yb`vY/bevqb/tgi vgz Kiv nte |
6. c0`ugK me`'vj tqi KivRKg`m`ut`K`v`f`thvM` DcvE` c0Bi Rb` c0Z`K \_vbv, tRj v I wfvM ch`q Kvhr`i Z\_` e`e`vi wfiE` Mto tZjv nte |



### gv` & vmv uk'lv

1. gv` & vmv, tj vi AmgvB 3uU cKt'i i KvR mgvB Kiv|
2. bZbfite gv` & vmv uk'lv i Dbq b I AvaybKvqtbi Rb` cwi K'i bvKvj xb mgdq uZbuU cK'i ev`bvqtbi KvR i iæKiv|
3. c0\_ugK chdq i gv` & vmv, tj vi uk'lv tK c0\_ugK ue`'vj tq i uk'lv i mvt\_ mgšq mrvab Kiv|
4. cwi K'i bvKvj gv` & vmv uk'lv, YMZgvb Dbqtb c`t'jc MthY Kiv|

### Ktj R uk'lv

1. cwi K'i bvKvj mi Kvix I temi Kvix Ktj tR AeKvVtgvMZ mthvM epx Kiv| ueAvb I chvM Z uk'lv i Dci temk, iæZj Avt'ivc Kiv|
2. K'vtWU Ktj tRi b'vq AvZwi<sup>3</sup> 10uU mi Kvix Ktj R I 64uU g'Wj t'z tK Dbz uk'lv tK`'m t mte Mto tZvj v nte|
3. thme tRj vq tKvb mi Kvix gvuj v Ktj R tbB Gai tbi 20uU tRj vq 1uU Kti mi Kvix gvuj v Ktj R t'rcb Kiv nte|
4. 20uU temi Kvix Ktj R tK RvZiqKiY Kiv nte| c0qvRbvbyqx Ktj R, tj vtZ mnuk'lv c0j b Kiv nte|

mvi uY- 12

### cAg cAewl R uk'lv cwi K'i bvq gva'ugK, uWuM0I Kwii Mix uk'lv Dbqtb i j 'g'v'v

uk'lv i	uFi eQi 1997 mj	j 'g'v'v 2002 mj	2002 mvtj kZKiv epx i cwi g'v
1. gva'ugK ue`'vj q msL'v	13,526	16,686	23.36
2. gva'ugK ue`'vj tq uk'lv_ pmsL'v	63,30,325	89,68,450	41.67
3. B>Uvi ugvW'tqu Ktj R msL'v	766	925	20.76
4. B>Uvi ugvW'tqu Ktj tRi uk'lv_ pmsL'v	2,05,421	2,49,790	21.60
5. uWuM0Ktj R msL'v	768	924	20.31
6. uWuM0Ktj tRi uk'lv_ pmsL'v	3,72,489	4,59,968	23.49
7. uWuM0Ktj tRi B>Uvi ugvW'tqu uk'lv_ x'pmsL'v	6,82,039	8,61,656	26.34
8. Kwii Mix uk'lv c0Z0vb msL'v	126	1,161	821.43
9. Kwii Mix uk'lv c0Z0vtbi uk'lv_ pmsL'v	20,183	1,18,100	485.15

Drm: The Fifth Five Year Plan 1997-2002, Planning, Commission Ministry of Planning Government of The People's Republic of Bangladesh, Dhaka, 1998, P. 442, 447.

mvi uY- 12 t\_ tK cwi K'i bvKvj gva'ugK, D'P gva'ugK, uWuM0I Kwii Mix uk'lv c0Z0vb Ges uk'lv\_ x'p epx i j 'g'v'v m'v u'ofvte Rvbr hvq| GtZ gva'ugK ue`'vj tq uk'lv\_ p cwi g'v epx i AvKvLv e<sup>3</sup> Kiv ntqtQ| gva'ugK uk'lv\_ x'p Z'z'bvq AeKvVtgvMZ mthvM

ewxi cwi gviY Kg ubaŋY Kiv nᚦqᚦQ| Zᚦe gva'ingK ukᚦᚦv\_x<sup>©</sup>ewxi gj- mgvaib ubwNz  
iᚦqᚦQ gva'ingK ᚦᚢᚦᚢ ukdU PrjyKivi gᚦa' | Kwii Mix ukᚦᚦv cᚰZōvb ewx I Kwii Mix  
ukᚦᚦv\_x<sup>©</sup>wfūĒ eQᚦii Zᚦᚦbriq AᚦbK teik ewx Kivi cwi Kíbv tᚦqv nᚦqᚦQ| Gᚦᚦᚦᚦ  
temiKvix LvᚦZ 500Ōi teik Kwii Mix ukᚦᚦv cᚰZōvb ewxi gva'ᚦg Kwii Mix ukᚦᚦv tᚦᚦᚦᚦ  
chŋᚦ mdj Zv ARᚦ Kiv m<sup>©</sup>e nᚦe eᚦj cwi Kíbvme`MY Avkvev` e<sup>©</sup> KᚦiᚦQb|

### wekᚦe`'vj q ukᚦᚦv

1. tgivgZnxb wekᚦe`'vj q weii s-Gi tgivgZ I bevqb KvR Kiv|
2. weÁvb I chŋᚦᚦ ukᚦᚦv ewxᚦZ mg\_ᚦ I Drmivn`vb Kiv|
3. Qquw bZᚦ weÁvb I chŋᚦᚦ wekᚦe`'vj q ᚦ'vcb Kiv|
4. ᚦ`ᚦki 933 wU wMwMŌKᚦj ᚦRi cᚰᚰqvRᚦb RvZixq wekᚦe`'vj qᚦK kwi<sup>©</sup>kuj x Kiv| G mKj  
Kᚦj ᚦRi ukᚦᚦvi gvb Dbqᚦb j`veᚦiUix I jvBᚦeᚦixi mᚦᚦwM ewx Kiv| GZŌ`ZxZ  
RvZixq wekᚦe`'vj q wKQmSL`K Kᚦj RᚦK MŌRᚦqU I ᚦcvŌ MŌRᚦqU chŋᚦq MᚦeIYv I  
cᚰᚰᚦᚦYi Rb` Dbᚦᚦᚦite Mᚦo Zᚦᚦe|
5. evsjᚦ`k Dᚦgᚦ wekᚦe`'vj q weUwifŌi mg\_ᚦᚦ ᚦ`ke'vcx` ᚦ-ukᚦᚦY KgᚦᚦᚦᚦK Avᚦiv  
DbᚦᚦZi Kᚦi Mᚦo Zᚦᚦe|
6. wekᚦe`'vj q ukᚦᚦKᚦ`i Rb` ᚦ`ᚦki wᚦZᚦi Ges weᚦ`ᚦk e'vcK D`P/DbᚦᚦZi ukᚦᚦv Ges  
cᚰᚰᚦᚦYi e'e`v tᚦqv|
7. wekᚦe`'vj q m<sup>©</sup>ú`ᚦK`<sup>a</sup> Ges wekᚦe`'vj q, ᚦjvi gᚦᚦS Kwi<sup>©</sup>úDUvi tᚦU-I qvK<sup>©</sup>Avᚦiv  
kwi<sup>©</sup>kuj x Kiv| mKj wekᚦe`'vj q weᚦ`kx wekᚦe`'vj ᚦqi mᚦᚦ\_ weifb<sup>©</sup>hᚦᚦ\_ Kgᚦᚦᚦᚦ MᚦᚦY  
Kᚦe|
8. ukᚦᚦvi gvb Dbqᚦb Ges wekᚦe`'vj q gÁjx Kigkᚦbi wᚦqᚦᚦY ᚦ`ᚦk weÁvb, MᚦeIYv I  
chŋᚦᚦ wekᚦe`'vj q ᚦ'vcᚦb miKvi Drmivn`vb Kᚦe|

### A\_ᚦᚦb

cĀg cĀewm ᚦ ukᚦᚦv cwi Kíbv q ukᚦᚦvᚦᚦᚦᚦ 1,28,931.50 wᚦwᚦ qb UvKv eiví Kiv nᚦqᚦQ  
(mviwY- 13)| Zbᚦa` 27,141.30 wᚦwᚦ qb ev 21.05% A\_ᚦᚦeᚦ Amgviᚦ cᚰKí\_ᚦjv  
m<sup>©</sup>úbeKivi Rb` Ges evKx 1,01,790.20 wᚦwᚦ qb UvKv ev 78.95% bZᚦ cᚰᚰᚦᚦi Rb`  
eiví Kiv nᚦqᚦQ| ukᚦᚦv tᚦᚦᚦᚦ mgMŌcĀewm ᚦ cwi Kíbv 6.58% A\_ᚦᚦeiví Kiv nᚦqᚦQ|  
ukᚦᚦv tᚦᚦᚦᚦ miKvi temiKvix LvᚦZi weibᚦqvMᚦK mg\_ᚦ ᚦvb Kᚦe| temiKvix  
wekᚦe`'vj q, Kᚦj R I ᚦᚦᚦ cᚰZōvi tᚦᚦᚦᚦ\_ YMZgvb AᚦᚦᚦeivLᚦj miKvi temiKvix  
weibᚦqvMᚦK Kigᚦ ivLᚦe|

**চাঁদ চাঁদেবলি উকলি চীকিবি অ-ইডি চীগলি (1996/97 মত্জি গ্জি)**

μগK bs	Dc-†m± i mgn	AνbγubK AuL R e`q- uγuj qb UuKvq		
		Amγuβ cκi	bZk cκi	†gvU
1.	c0_uγK uκ†l	1,714.00	66,880.20	68,594.20
2.	MYuκ†l	3,959.20	10,040.80	14,000.00
3.	gva`uγK I D`P gva`uγK uκ†l (gv` & vmv I K†j R uκ†lvmn)	15,410.80	15,793.60	31,204.40
4.	ekpe`vj q uκ†l	1,980.00	3,764.40	5,744.40
5.	we AvB uU	200.00	700.00	900.00
6.	uκ†l gšYvj q	375.50	2,52.90	628.40
7.	Kvvi Mix uκ†l	2,430.00	2658.30	*5,088.30
8.	Kvvi Mix mrvqZv	121.00	200.00	321.00
	†gvU	26,190.50	1,00,290.2	1,26,480.7
9.	K`vWU K†j R, K`vUb†qU cveuj K`j I K†j R	291.50	500.00	791.50
10.	agxq uel q/uκ†l	659.30	1,000.00	1,659.30
	<b>me†gvU</b>	<b>27,141.30</b>	<b>1,01,790.20</b>	<b>1,28,931.50</b>

Drm: The Fifth Five Year Plan 1997-2002, Planning Commission, Ministry of Planning, Government of The People's Republic of Bangladesh, Dhaka, 1998, P. 452.

\*uPiuZ msL`vq c0Kškj ekpe`vj q, weAvb I chγp ekpe`vj q, eZeUzKul. ekpe`vj q, Kul. K†j Rmgn, gva`uγK`†i i eEgj-K Dcv`vb, †jv Ašf† nqub|

miKvi Avkv cKvk Ki†Q th, uκ†lvq miKvix uwb†qv†Mi 10% Gi mgcwi gvY temiKvix LvZ ††K uκ†lv †††† uwb†qv†Mi †e| GQvov agxq uκ†lv LvZ miKvix uwb†qv†Mi 30% Gi mg cwi gvb temiKvix††e uwb†qv†Mi †e †j cwiKibwe`MY g†b K†ib| G†††† GbuRI, †`Qv†mex msMVb, Rbtmevgj-K msMVb c††Z†K m††e` uwb†qv†MKvix uwb†qv†Mi n††m†e uPvYz Kiv n†††Q|









### gv`tmv uk`qv

1. RvZxq uk`qv e`e`vi Awet`Q` Ask wntmte gv`tmv uk`qvK h`MvcthvMx I bZb c0Yi tm mAwEZ Kti Z`tz nte|
2. eZgvb uk`qv e`e`vK clye0`vm Kti BetZ`vq AvU eQi, `vLj `B eQi, Awjg `B eQi, dvhj wZb/Pvi eQi, Kwjg `B/GK eQi tgqv`x Kivi cwi Kibv MhY KitZ nte|
3. bvi`i Rb` gv`tmv uk`qv Mh`Yi m`hvm ewx KitZ nte|
4. gv`tmv uk`qv D`Pzi uk`qv I MtelYvi e`e`v Kiv Ges gv`tmv uk`qvK`i c0k`qvYi Rb` MvRxc`ji b`vq t`tki Ab`vb` `v`b gv`tmv uk`qvK c0k`qvY c0Z0vb Mto tZvj vi cwi Kibv wbtZ nte|
5. t`tki wFZti I w`tk wbtqM jv`fi Rb` gv`tmv uk`qv e`e`vq uk`qv\_x`i Rb` Kwimix I ew`Egj-Kuk`qv A`sf` Kivi cwi Kibv wbtZ nte|
6. gv`tmv mg`ni ms`vi, AeKvVtgvMZ Dbqb, uk`qv DcKiY I cv`cyK mieivn c`vZ. wv0Z Kivi cwi Kibv wbtZ nte|
7. gv`tmv uk`qv YMZ gv`b Dbqtb Brvi me`ti GKvWvgK cwi`k`bi e`e`v KitZ nte| mekpe`ij q gA`jx KwgkbtK gv`tmv uk`qv D`P ch`q I mvariY uk`qv gv`bi mgZv wv`vbi `vqZjw`tz nte|

### ew`Egj-Kuk`qv

1. `qv Rbkv<sup>3</sup> m`vi Rb` gva`vgK `li, (gv`tmv mn), uk`i KivLvbr I ew`Egj-Kuk`qv c0Z0vbi mg`tq m`v0BP t0M0tgi gva`tg gv`vi vvdUmg`vb m`vi cwi Kibv wbtZ nte|
2. w`tc- vgv `ti wZb eQi Qqgv Kwimix uk`qv c0Z0vbK Ges Qqgv KivLvbr ev gv`v ch`q mshv`i cwi Kibv wbtZ nte|
3. t`vWU mg`tqi gva`tg w`tc vgv mgvBKvix uk`qv\_x`K D`P ch`q uk`qv m`hvm w`tz nte|
4. uk`qv c0Z0vbm`ni mter`P e`envi wv0Z Kivi Rb` `B wkdU Pvj yKivi cwi Kibv MhY KitZ nte|
5. Kwimix I ew`Egj-Kuk`qv c0Z0vbi uk`qvK`i Rb` h`MvcthvMx c0k`qvYi e`e`v Ges c0qvRbxq cyK iPbv I Abv`t`i cwi Kibv wbtZ nte|

### D`P uk`qv

1. gva`vgK uk`qv mgvcbKvix uk`qv\_x`Y tgav, AvMh I c0YZvi w`vE`tz mekpe`ij q I Ktj Rmg`n D`P uk`qv MhY Kite|
2. D`P uk`qv gv`bv`tb m`y`v cwi Kibv MhY KitZ nte|
3. mekpe`ij tq Pvi eQtii mgv`SZ w`vM0tKv`I GK eQtii gv`vim tKv`Ges mvariY Ktj R`tj v`Z wZb eQtii mgv`SZ w`vM0tKv`cov`vbi c0`leKiv ntqtQ| Pvi eQtii w`vM0tKv`Ges GK I `B eQtii gv`vm`tKv`mekpe`ij q Ktj tR cov`v nte| mekpe`ij q I Ktj tRi Aw`vbael GK ai`bi cv`m`P\_vKte|

4. լեզուները չեն ստացել համապատասխան օգնություններ ընդհանուր էության գծով և ընդհանուր էության հարցերում կրթական միջավայրում կրթությունը:
5. լեզուները չեն ստացել իրենց հարկուհիների համար անհրաժեշտ մեթոդականական կրթությունը: Կրթական միջավայրում կրթությունը:
6. կրթական միջավայրում կրթության ապահովումը համարվում է բացակայում է լեզուների և լեզուների հարցերում կրթությունը: Այնպես որ, լեզուների հարցերում կրթությունը հարցերում կրթությունը:
7. Ընդհանուր էության ապահովումը համարվում է բացակայում է մի կրթական միջավայրում, կրթական միջավայրում լեզուների հարցերում կրթությունը: Այնպես որ, կրթական միջավայրում կրթությունը:
8. լեզուների հարցերում կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:
9. Ընդհանուր էության կրթության միջավայրում կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:
10. լեզուների հարցերում կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:
11. լեզուների հարցերում կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:

**Կրթության Առաջընթաց**

Կրթության առաջընթացը կապված է շատ մեծ քանակությամբ կրթության հարցերի հետ: Կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:

**Կրթության հարցերում կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:**

Ընդհանուր էության հարցերում կրթության հարցերում կրթությունը համարվում է բացակայում է կրթական միջավայրում կրթությունը:

uk`vlvZ µgeaḡvb m`ú`i Pwn`v tgvv`v nte- (K) AvZwi<sup>3</sup> RvZxq eivt`i gva`tg, (L) AcPq tiva I e`e`vcbvq `ḡZv ARḡ Kti, (M) cĀZōvḡbi Avq emvotq, (N) mḡxj mgvḡRi Dḡ`vM I e`v<sup>3</sup>MZ Abvḡḡbi gva`tg, (O) veḡ`kx mrvnh` I `vbxq AskMḡḡYi gva`tg|

**uk`vlvq A\_ḡḡb Kvgkb vbtḡe<sup>3</sup> cvi Kíbv MḡḡYi mḡwik Kti-**

1. 2000 mij bvlM` uk`vlvZ RvZxq Avtqi eivt` 5% G DbvZ Kiv Ges 2010 mij bvlM` Zv 7%G DbvZ Kiv|
2. veEevbḡ`i Avtqi Dci uk`vlv Ki cĀZb Kti uk`vlvZi Rb` AvZwi<sup>3</sup> A\_ḡmsMḡ Kiv| GB Ki BDvbbq chḡq t\_ḡK tRjv chḡq Ges tčđi GjvKvq `vbxq mi Kvi ms`v Av`vq Kti cĀḡK uk`vli Rb` e`q Kivi cvi Kíbv tbqvi mḡwik Kiv nq|
3. QvĀ teZb evx`i Rb` GKvU dgḡv `Zwi Kitz nte| QvĀteZb evx` Kiv ntj Gi mtḡ e`vsk FY I evĒ cĀvḡbi mḡZc`ḡvĀv cĀZḡ Kitz nte|
4. temi Kviv chḡq D`P uk`vlv cĀvḡi Drmrvn t`qv nte| temi Kviv uk`vlv Abvḡv AvqKi ḡḡ nte| temi Kviv cĀZōvḡ uk`vli hḡvchḡḡ gvb i ḡv Kitz nte|

temi Kviv uk`vlv cĀZōvḡbi e`vsk Mv`PQZ A\_ḡKvĀ Z Kti cĀvḡḡ gj-ab vntmte e`envi Kti GKvU uk`vlv e`vsk cĀZōv Kivi Ges vevfbvuk`vlv cĀZōvḡK Zv t\_ḡK FY t`qvi cvi Kíbv tck Kiv ntqḡ|



**cvvḡi gj`vqb- 2.9**

**A) eūbeḡḡbx cĀe**

mḡVK DĒi vbt`R gj-K AḡiUḡK eĒvḡqZ Kiab| (D`vniY: Avcbvi vbeḡḡPZ DĒiU ŪKŪ ntj ḡḡK (K) eĒvḡqZ Kiab)

- 1| BD Gb vW včōi ḡibe m`ú`i vḡvUḡḡvZvteK 1993-96 mgḡq t`ḡki RvZxq Avtqi KZ kZvsk uk`vlvZ e`vḡqZ ntqḡ?  
K. 2.9%  
L. 3.1%  
M. 3.4%  
N. 6.4%|
- 2| cĀZḡekx t`k\_ḡj vi Zḡbvq uk`vlvZ RvZxq Avq eivt`i v`K t\_ḡK evsj v`ḡki Ae`vb  
K. mḡvḡ chḡq iḡḡḡ  
L. meḡḡḡchḡq iḡḡḡ  
M. vḡZxq `vḡb iḡḡḡ  
N. ZZxq `vḡb iḡḡḡ|

ᄃ Ae GwKkb

- 3/ kvgmj nK ukᄃᄃv Kvgkb D>gᄃ wekte`vj tqi Rb` tUvj wfktbi RvZxq P`vtbtj  
K. mgq eivl`bv Kivi mᄃvwi k Kti#Q  
L. ᄃf mgq eivl`i mᄃvwi k Kti#Q  
M. Awak mgq eivl`i mᄃvwi k Kti#Q  
N. eivl`KZ.mgq Kvgtq Avbvi mᄃvwi k Kti#Q|
- 4/ kvgmj nK ukᄃᄃv Kvgkb QvT teZb  
K. wejtvc Kivi cŃleKti#Q  
L. e`vcKfite eᄃx Kivi cŃleKti#Q  
M. wbgZg chŃq ivLvi cŃleKti#Q  
N. eᄃxi Rb` GKwU dgᄃv`Zwi i cŃleKti#Q|

**Av) msvŃB DĚi cĕæ**

1. tKvb&tŃŃvc#U kvgmj nK ukᄃᄃv Kvgkb MvZ nq eYŃv Kiab|
2. kvgmj nK ukᄃᄃv Kvgktbi eŃĚg-j-Kukᄃᄃv mᄃvwiKZ mᄃvwi k, tj v vj LŃ|
3. ukᄃᄃvLvZ mᄃvwi i ᄃgeaŃvb Pwv`v tgUvtZ kvgmj nK ukᄃᄃv Kvgkb uk uk Dm wPwYZ Kti#Q?

**B) iPbvj-K cĕæ**

1. kvgmj nK ukᄃᄃv Kvgkb cŃvġK, DcvbŃvbK I MYukᄃᄃv mᄃvwiK`th mᄃvwi k tck Kti#Q Zvi weeiYw`b|
2. kvgmj nK ukᄃᄃv Kvgktbi gva`vġK I gv`&vrv ukᄃᄃv mᄃvwiKZ mᄃvwi k, tj v DŃj - LceŃ G, tj vi KvŃŃvwi Zv e`vL`v Kiab|
3. kvgmj nK ukᄃᄃv Kvgktbi D`Pukᄃᄃv I ukᄃᄃvi A`Ńqb mᄃvwiKZ cwi Kíbv we#k- IY Kiab|
4. kvgmj nK ukᄃᄃv Kvgktbi GKwU chŃj vPbv cĕŃ vj LŃ|

**mŃK DĚi**

A) 1| K    2| L    3| M    4| N

## References

1. KzivZ-G-Lyv uk`Iv Kugkb wi tcvU©  
evsj v`k Ktj R nekte`'ij q uk`IK miguZ, avbgU, 1996
2. ZZxq cAemil R uk`Iv cwi Kí bv 1985-90  
cwi Kí bv Kugkb, MYcRvZŠx evsj v`k mi Kvi, XvKv, 1986
3. cZte`b  
RvZxq uk`IvbnvZ cVqb KugU 1997  
uk`Iv gšbvj q, MYcRvZŠx evsj v`k mi Kvi, evsj v GKvWgx tcn, XvKv, 1997
4. tgvrvs\$ tgvngb Dj - vn, uk`Ivi BvZnm,  
ugZv cKvkbx, XvKv 1980
5. W. Gg G iing  
evsj vi migvRK I mvs`uZK BvZnm, 1g LÛ (1203-1576), evsj v GKvWgx,  
XvKv 1995
6. tgvrvs\$ Bvj qvm, mššI Kgvi B`y  
evUk fvi tZ uk`Iv, `g Ae GWKkb, evsj v`k D:gy` nekte`'ij q, MvRxcj,  
1997
7. m`uv`K mivRj Bmj vg  
evsj v`tki BvZnm 1704-1971, LÛ- 3  
GvkqvmUK tmvmvBvU Ae evsj v`k, XvKv, 1993
8. 1998, Statistical year book of Bangladesh, BBS, Dhaka, 1999.
9. The first five year plan 1973-78, planning Commission, GOB, Dhaka, 1973.
10. The Second five year plan 1980-85, planning Commission, GOB, Dhaka, 1983.
11. The fourth five year plan 1990-95, planning Commission, GOB, Dhaka, 1995.
12. The fifth five year plan 1997-2002, planning Commission, GOB, Dhaka, 1998.
13. UNDP, HUMAN DEVELOPMENT REPORT 1999,  
OXFORD UNIVERSITY PRESS, NEW YORK, 1999.









A\_ŕmZi Dbq̄tbi j tŕŕ` ŕŕ Rbk̄w³ m̄p̄oi gva`tg m̄WKf̄ite c̄wi K̄w̄i Z ũkŕŕŕ Kḡm̄s`vb m̄gm̄vi m̄gvarb Ki tZ c̄v̄t̄i | D`vni Y`ŕfc ej v h̄vq th, Dbq̄b̄k̄xj t`ŕki ũkŕŕŕ c̄ŕZōib eŪ K̄ti t`l qv n̄tj ũbt̄q̄m̄ c̄wi ũ`ŕZ n̄tq DV̄te f̄qven | d̄tj m̄Kj ũkŕŕŕ\_x`k̄ḡevR̄v̄ti c̄ŕek Ki te Ges teZ̄tb/gR̄j̄xi Dci c̄ŕŪ F̄YvZ̄K c̄f̄ve ũe`li Ki te | ũkŕŕŕ eŪ ḡv̄b̄t̄K Gi ḡt̄a` Av̄Ūt̄K ti t̄L k̄ḡevR̄vi l teZ̄t̄bi ũek;Lj v c̄ŕZ̄t̄iva K̄ti | th t̄K̄v t`ŕki Kg` ũbt̄q̄R̄t̄b ũkŕŕŕi Ḡi f̄c K̄iv R̄m̄i Z̄v AZ`ŕŕ Z̄v r̄ch̄ŕŕŕ ũkŕŕŕi GB c̄f̄ve c̄wi ḡv̄t̄ci R̄b` t̄P̄ŕi eŪi eq̄t̄m̄va`ũkŕŕŕ\_x`ŕ i (h̄v̄iv G m̄ḡt̄q K̄tg`ũbt̄q̄m̄RZ n̄q̄ib) c̄wi ḡv̄Y ũb̄Yŕ Ki t̄j m̄n̄t̄RB Z̄v tev̄S̄v h̄vq | m̄v̄ḡm̄K A\_ŕmZi K̄ḡŕt̄q̄R̄t̄b ũkŕŕŕi G ai t̄bi c̄f̄ve ũe t̄kl f̄ite ũi az̄en |

ũkŕŕŕ ḡv̄b̄t̄K Dbz̄ R̄ieb̄h̄v̄c̄t̄bi R̄b` M̄ŕg t`ŕK kn̄ti Mḡt̄b D̄ŕy K̄ti | GR̄b` M̄ŕḡY K̄ul̄i D̄rc̄v`b̄k̄xj Z̄v e`v̄c̄Kf̄ite c̄f̄v̄eZ n̄q | K̄vi Y Dbq̄b̄k̄xj t`k̄s̄t̄j v̄Z QŪtēk̄x teK̄vi Z̄j ũe`ḡv̄b ũeav̄q K̄ul̄i D̄rc̄v`b̄k̄xj Z̄v ũb̄ḡēch̄ŕŕŕ i t̄q̄t̄Q | Z̄v B ũkŕŕŕi R̄b` K̄ul̄. t`ŕK Āw̄Z̄m̄i³ k̄ŕk̄w̄³ kn̄ti `v̄b̄ŕŕi n̄tj QŪtēk̄x teK̄vi Z̄j Ges ũb̄ḡēD̄rc̄v`b̄k̄xj Z̄v t̄Zḡb f̄qven i f̄c c̄wi M̄h̄ K̄ti b̄v |

**ŕm̄ŕḡv̄ x K̄ḡm̄s`v̄t̄bi d̄tj m̄Āq l ũḡZe`q̄v̄Z̄vi m̄ŕh̄v̄m̄ ēw̄x**

ũkŕŕŕ ḡv̄b̄t̄i Av̄q ēw̄x K̄ti Ges Gi d̄tj m̄v̄ḡm̄K A\_ŕmZ̄t̄Z e`q̄l ēw̄x c̄v̄q | c̄Y` Ges t̄m̄ev̄i ēw̄az̄ t̄f̄v̄t̄Mi (Consumption) `iab K̄iv R̄i Av̄ŕŕi m̄ŕh̄v̄m̄ A\_ŕmZ̄t̄Z e`v̄c̄K K̄ḡm̄s`vb m̄p̄o K̄ti | `x̄N`ŕḡv̄ x K̄ḡm̄s`vb ḡv̄b̄t̄i ḡv̄t̄S m̄Āq l ũḡZe`ũq̄Z̄vi m̄ŕh̄v̄m̄ m̄p̄o K̄ti |

**ũkŕŕŕ l K̄ḡm̄s`v̄t̄bi ai t̄bi c̄wi eZ̄ŕ**

ũkŕŕŕ t̄Kej ḡv̄b̄t̄i t̄f̄v̄M `ŕe`i c̄wi ḡv̄Y ēw̄x K̄ti b̄v eis ḡv̄b̄t̄i t̄f̄v̄M c̄f̄Y`i K̄v̄v̄t̄ḡv̄l c̄wi eZ̄ŕ K̄ti | ũkŕŕŕ Z̄ e`v̄³ iv b̄v̄b̄w̄ea c̄Y` m̄v̄ḡm̄ŕ t̄f̄v̄t̄M m̄t̄P̄o n̄q | Ḡt̄Z b̄v̄b̄v i Kḡ c̄f̄Y`i D̄rc̄v`b ēw̄x i c̄ŕY Z̄v t`L̄v t`q | Ḡf̄ite ũkŕŕŕi d̄tj A\_ŕmZ̄t̄Z K̄ḡm̄s`v̄t̄bi K̄v̄v̄t̄ḡv̄ (Structure) c̄wi ēv̄Z̄ n̄q | A\_ŕŕ A\_ŕmZ̄t̄Z c̄Y` D̄rc̄v`b ēŭḡŕx (Diversified) n̄tq D̄t̄V Ges K̄ḡm̄s`v̄t̄bi m̄ŕh̄v̄t̄Mi l ēŭḡŕx c̄h̄vi N̄t̄U | ũkŕŕŕi d̄j v̄d̄j c̄ŕk̄ŕbi (Demonstration Effect) ḡv̄a`tg Āi k̄w̄ŕŕ Z̄ ḡv̄b̄t̄i ḡv̄t̄S ũkŕŕŕv̄t̄K K̄iv R̄i f̄ite te t̄Q t̄b̄q̄vi (Option) `ŭf̄ŕx m̄p̄o n̄q | Z̄v B ḡv̄b̄t̄i `f̄ teZ̄t̄bi P̄v̄K̄z̄t̄Z Mḡb b̄v K̄ti ũkŕŕŕ M̄h̄t̄Y ĀM̄h̄i n̄q | Gi d̄tj ũb̄w̄ŕ ai t̄bi l Kḡ teZ̄t̄b k̄iḡK (th̄gb M̄n̄f̄Z̄) t̄c̄t̄Z m̄gm̄v̄ t`L̄v t`q | K̄vi Y ũkŕŕŕ Z̄ e`v̄³ iv G m̄Kj t̄c̄k̄v̄q ũbt̄q̄m̄RZ n̄q b̄v | Ḡf̄ite ũkŕŕŕ ḡv̄b̄t̄i K̄ḡm̄s`v̄t̄bi ai t̄b (Pattern) c̄wi eZ̄ŕ Av̄t̄b | ũkŕŕŕ ḡv̄b̄t̄i Av̄t̄q ŕŕḡZ̄v c̄ŕēŭt̄b Ges A\_ŕmZ̄t̄Z m̄i Z̄`K̄vi Av̄q ēw̄x t̄Z m̄v̄qK n̄q | Gi ēv̄n: c̄K̄v̄k N̄t̄U K̄ḡm̄s`vb m̄ŕh̄v̄t̄Mi c̄ŕēŭt̄b | ũkŕŕŕi `iab k̄ŕ ēv̄R̄v̄t̄i `ŕei Z̄v K̄tḡ h̄v̄q Ges k̄ŕ Āw̄K̄Z̄i M̄i Z̄k̄xj n̄q | Ḡf̄ite ũkŕŕŕ m̄ŕŭŕi t̄Yi `iab teK̄vi m̄gm̄v̄ Kḡ f̄qven i f̄c c̄wi M̄h̄ K̄ti |

K̄ḡm̄s`v̄t̄bi Dci ũkŕŕŕi c̄ŕZ̄ŭ c̄f̄itei c̄wi ḡv̄c K̄iv AZ`ŕŕ R̄i ŭj e`v̄c̄vi | K̄vi Y c̄ŕZ̄ŭ c̄f̄itei m̄ḡq̄m̄ḡv̄ ũb̄w̄ŕ K̄iv m̄ŕe n̄q | Z̄v ŕv̄ov K̄ḡm̄s`v̄t̄bi t̄ŕŕt̄ ũkŕŕŕ n̄tj v̄ Āt̄b K̄s̄t̄j v̄ ci`ui m̄ŕŭK̄ŕŕŕ D̄c̄v`v̄t̄bi ḡt̄a` Ab`Z̄g c̄ŕib | ḡv̄b̄t̄i K̄ḡm̄s`v̄t̄bi t̄ŕŕt̄ ũkŕŕŕi ũi az̄t̄K m̄WKf̄ite Ab̄ŕv̄eb Ki t̄Z c̄v̄t̄j t`ŕki Dbq̄b c̄wi K̄i b̄v Ges ũkŕŕŕ c̄wi K̄i b̄v c̄ŕq̄b m̄n̄R n̄te | Z̄v B c̄wi K̄w̄i Z̄ ũkŕŕŕi ḡv̄a`tg K̄ḡm̄s`vb R̄ib Z̄ m̄gm̄v̄ m̄ḡv̄t̄b ĀM̄h̄i n̄t̄Z n̄te |



**cv#VĒi gj`iqb: 3.1**

**A) eūibePbx cĕæ**

mĭWK DĒi ũb`R gj-K AŋiŭtK eĒvĭqZ Kiab | (D`vniY: Avcbvi ũbePZ DĒiŭ ŐKŐ ntj GtK K) eĒvĭqZ Kiab)

- 1/ tKvb& t`tki A\_ŕmZtZ cwiKw Z ũkŋvi mvdj` t`tL Ab`vb` t`k ũkŋv cwi Kĭbv cŋqtB DŐy nq?  
 K. gvKŐ hŋivo<sup>a</sup>  
 L. Rvcvb  
 M. fvi Z  
 N. mgyRZŭšK tmvftqZ BDvbqb|
- 2/ ũkŋvtK ũK aitbi ũbtqvRb tŋt inŧmte ũPny Kiv hvq?  
 K. cyR-ũbŭeo  
 L. ũkŋv-ũbŭeo  
 M. kŋ-ũbŭeo  
 N. ũkŋv\_xŭbŭeo|
- 3/ 1960 mĭtj i ũnmve gtZ fviŧZi ũkŋvtŋtĪ GKUv gvbŧi Kgmſ`vtbi Rb` KZUvKv e`q ntqŭj ?  
 K. 2088 UvKv  
 L. 3242 UvKv  
 M. 7500 UvKv  
 N. 9500 UvKv|
- 4/ cyRev`x t`k\_tjvi Dbz chŭ<sup>3</sup> Dbqbkj t`kmgŧni kŋKt` i Drcv`bkj Zvq ũK aitbi cwi eZŐ NUvt`Q?  
 K. kŋKt` i Drcv`bkj Zv evx cvt`Q  
 L. kŋKt` i Drcv`bkj Zv Kŧg hv`Q  
 M. kŋKt` i Drcv`bkj Zvq tKvb cwi eZŐ nt`Qbv  
 N. kŋKt` i Drcv`bkj Zv `ŧZMvZtZ evx cvt`Q|

**Av) msŋŋB DĒi cĕæ**

1. 1996/97 mĭtj i cwi msL`vb tgvZvteK evsj vt`tki ũŶtcvU Ges g`vbŧvKPni s I ũkŋvtŋtĪ KŧgŭbtqŭRZt` i Zŧbvgj-K Z\_` cŐvb Kiab|
2. t`^ŐvcŐYŭ Z I A t`^ŐvcŐYŭ Z teKvi Zj m`útkŋj Lŧ|
3. Őŕevx evĒK cŧj Zŭi tqZŐ ej tZ Kv` i eŧv`bv ntqŧQ?

**B) iPbgj-K cĕæ**

1. ũkŋv tŋtĪ cĒ`ŋ I ctivŋ Kgmſ`vb m`útkŋeei Y ũ`b|
2. RvZxq Kgmſ`vb RvbZ mgm`v mgyvftb cwi Kwi Z ũkŋvi cŧqvRbxqZv m`útkŋ Avtj vPbv Kiab|

mĭWK DĒi: A) 1| N 2| M 3| K 4| K

**cW 3.2**

**իկյն cւի Kի bւ I A\_ՊուշK Dբգբ**

**Dի`իկ`**

GB cւթV Avւոբ-

- cւի Kւի Z իկյնի միտ\_ մցւրZմեՅK, cւրRev`x I Dբգբկյ t`իկi A\_ՊուշK Dբգբի մասւKԵ`vL`v KիտZ cւիտեբ|
- cւի Kւի Z իկյնի միտ\_ լի I Կւլ.Dբգբի AvՏեմասւKԵջ`իZ cւիտեբ|
- cւի Kւի Z իկյնի միտ\_ `ւի`Zv, RbmsL`v Ելք Ges Drcv`bկյ Zvi thvMmF`Zv ԵԿԹv KիտZ cւիտեբ|

Dբգբկյ t`կմցի A\_ՊուշK Dբգբի MւZaviv, cւիZ Ges tKՏkj լծգ cւի Kի bւե`ի`i ցիտS գZ cւ\_Ք` iտգՉ| cւի Kի bւե`ի`i GKvsk նւրբեւիկի cՉZօնb `ւոբ, իմիPi Կոն միււրնի Rb` Եւրոպայ Եւ Luj Lbb շիւշK Dբգբի գյ- Ask նոտմե նեթPbv Kի` լիKb| GmKj շիտի A\_Եւրոպի`i ci Zvւր իկյնLւթZ DԾԷ A\_ Եւրոպի DւPZ Եյ գի Kիb| cւի Kի bւե`ի`i AvիK Ask իկյնի A\_ՊուշK Dբգբի , լիZԿԵA½ նոտմե `իKvi Kիի I - th me իկյն Kւի Mix `իZv մյօ Kի Zvi շիտեւ , լիZիւր Kիb| G mKj cւի Kի bւե` Kւի Mix իկյն Ե`Zx Ab`vb` իկյնի A\_ՊուշK DբգբիMZv h\_v`իտե `իKvi Kիիb| Zե Gme cւի Kի bւե` իկյնի մցւրRK գյ` iտգՉ Եյ `իKvi KիիՉb| cւի Kի bւե`ի`i մեճի Askւ իկյնի A\_ՊուշK Dբգբի Ab`Zg շիտե Pւյ Kv կւ` նոտմե նեթPbv KիիՉb| GmKj cւի Kի bւե` Կւլ, լիկ, Սիլիկոն շիտե LւթZ Dբգբի նիւԷ նոտմե իկյնի , լիZ: շիտե Kիb|

**իկյն մասւKԵ  
cւի Kի bւե`ի`i լիցլի  
գZւգZ**

նւրբեւիկի նեՄ լիտի AvիFԱZv t`իK ԵZԹի G մZ`ւ շիտե նոտՉ th, մցւր Kւի Z իկյնի Drcv`bի Rb` շիտեRւոյ գիբե մաս` մյօ գւ`ից A\_ՊուշK Dբգբ միւրնի միւրնի` KիտZ cւի| GB ցիբե մաս` մյօՉ շիտե իկյնի , լիZԿԵAԵ`vb լիտՉ| tKւb tKւb t`իK D`PZi `իի Zիւր շիտե իկյնի ԱԵ`vb լիտ Եյ շիտե նոտՉ| ԿիտZi tիի Gg. Gg. Avbմիւ 1961, 1971, 1981 միտի cւի msL`vb նեճ- IY Kի t`ւլիտՉb th, միտիZv Ելքի միտ\_ ցւ\_v լիտեAvq Ելքի մն- մասւKԵիտՉ| ZvB լիտ Ggb նոտմե Dբոշ nb th, 00.....For raising per-capita income, literacy programmes should be given a reasonably high priority ցւ\_v լիտեAvq Ելքի միտ\_ իկյնի մն-մասւKԵ(Correlation) thցի լիտՉ GKBFիտ ցւ\_v լիտե Avq Ելքի միտ\_ t`իկi A\_ՊուշK Dբգբի մասւKԵ RւոZ լիտՉ| ZvB cւի Kւի Zիտե միտիZv Ելքի շիտե MիY Kի t`իկi A\_ՊուշK AMիտի շիտե Gմիտ լիտ ից|

**միտիZvi միտ\_ Avq  
Ելքի մասւKԵ**

նւրբեւիկի ցւիտե 1909 t`իK 1957 միտի cւի msL`vbմցի նեճ- IYi գւ`ից B. Gd. լիտե t`ւլիտՉb th, 00 G մցի ցւիտե ԿիտZi th A\_ՊուշK Dբոշ NիտՉ Zvi kZKiv 21fւմ իկյնի Ելքի լիտե msMւշ լիտՉ00|

**ციური Z უკუნი მტ-  
Rვიტი A\_წიუკ  
Dbტი მუიK**

1868 მუი tgBR ms~იი გუაგ Rვიტი მუიწიტი i Aemv nq| ZiX RvZxqZve`x  
tbZviv meRbxb I ციური Z უკუნი e`e`vi cწვიRbxbZv Abye Ktib| უკუნი Dbტი  
e`vcK KgმPx MბY Kiv nq| mesk kZvāxZ Rვიტი e`vcK უკი Drcv`b ეუx ციური Z  
უკუნი Dbტი KvitYB მუე nტიQj| Rვიტი 1930 მუი t\_ტ 1955 მუიი გუა`  
უკუნიMZ გj-ab ეუx დტი RvZxq Avტი kZKiv 25 ფM ეუx NტიQ| Rვიტი უკუნი  
გსYij q t\_ტ 1963 მუი cწვიKZ 00Rვიტი მეKiv I უკუნი00 ბიგK ცYტიK ejv nტიQ,  
00G t`tk უკუნი GKU cბv `ვიZ; nტიQ mgM0 RbmgtRi `ტიZvi ეუx NUტიbv|  
A\_წიუკ Dbტი ev DchY მვიუRK AMბიZ tKivUvB მუტიRi `iaymigev Astki AMბიZ  
t\_ტ ev უUKტიK `ტი e`i cწვიq მუე nტიZ ციტი ბი00| Gტი A\_წიუკ Dbტი უკუნი  
cწვიRbxbZv I Zvi ციური Z მე`ტიი cბZB ბიZ c0 vb Kiv nტიQ|

ციური Z უკუნი მუიეK tმუიტიQU BDტიტი A\_წიუკ Dbტი PgKc0 `პის` vcb  
Kტიტი| iak მე-ტი tbZviv უკუნიტიK Zტი i ციური Z მვი`ev`x მვიR Mტიბი ნუიZვი  
მტიმტიB iayt`tLბ, eis G ნუიZვიტიK AZ`სი `ტიუ0 I თუიM`Zvi მტი/2 cწვიM  
Kტი0ტიb|

**ცი3b tმუიტიZ  
BDტიტი უკუნი  
ციური ბv I  
Drcv`bkyj Zv ეუx**

iak მე-ტი tbZv f-ვიუი ბიიP ტუბტი გტი 00უკუნი nტი მვი`ev`i cტი მვიRტიK  
Gუიტიq ბბვი GKUv ნუიZვი00| cieZტიZ ÷`ვი b Ges მუ00ფI cტი GKb მტი etj 0ტიb b  
00მვი`ev` AR0 KტიZ nტი ..... cბv KivR nტიv AvMvgx `ტი გუბტიK უკუნიტი Kტი  
ტიZვი00|

1924 მუი tმუიტიZ მიKვი c0უგK უკუნი cტიMტიბი Rბ` GKU ციური ბv cტიqბ Kტი|  
Gტი მტიმტი Kiv nq `k eტი QvTmsL`v 40 j ტ t\_ტ ეუx tტიq 80 j ტ KტიZ 162.2  
tKუი iaej LiP nტი| უKს`G მე უკუნიcბი tტიტიტი`i Drcv`b ტიგZv evovi დტი გუი  
ციტი eტი RvZxq Drcv`b ეუx ცტი 200 tKუი iaeტი i თუი| Gტი mg`ie`q cტიvcy  
cტიტიq Avq D0E nტი|

1917 მუი iუკვი ტვი RbmsL`vi kZKiv 75 ფMB 00ი ბიტი| 1920 t\_ტ 1939  
მუი chსი tმუიტიZ BDტიტი 9 tKუი 60 j ტ ბიტი, Avav ბიტი, eq`c გუბტიK  
უკუნი vb Kiv nq| 1924 t\_ტ 1935 მუი chსი uZბტიKუი 9 j ტ tტიტიტიq c0უგK I  
ბბგევა`უგK მე`ვიტიq ცივ მვიB Kტი| tმუიტიZ BDტიტი 1924 მუი `kkვიv უკუნი  
Dbტი ციური ბv MბYKტი ÷`ტიუი b t`uტიტიQb th, GK eტი d`vixტიZ უკუნიბუეკ მტიმტი  
KivR Kტი GKRb კტიტი KტიRi th Drcv`bkyj Zv ეუx ცვი, Z`ტიტი GK eტი `ტი  
ტიLvov Kტიტი Ggb GKRb კტიტი KტიRi Drcv`bkyj Zv 2.6 `Y თუი ეუx ცვი|  
D`PZi Drcv`bkyj Zv გტი კტიტი D`PZi თეZb Ges მუტიRi D`PZi RvZxq Avq|  
Gტი მე უკუნი RvZxq Avტი Ae`vb ivLvi გუაგ t`ტი A\_წიუკ Dbტი ნუიტიq `ტიK|  
tმუიტიZ A\_წიუკ` Kვიი f 1960 t\_ტ 1963 მუიი i უკუნი მუიუიKZ ციისL`vb  
მტი- IY Kტი t`tLb th, 00G მტიq კტიუ3 ეუx დტი tმუიტიZ BDტიტი RvZxq Avq  
23% ეუx tტიტიQ Ges Drcv`bkyj Zv ეუx `იX RvZxq Avq ეუx tტიტიQ 77%| ეუx  
cბ 77% Drcv`bkyj Zvi გუა` 38% ეუx tტიტიQ უკუნიMZ თუიM`Zvi `ტი ეუx დტი Ges  
39% ეუx tტიტიQ კტიტი i გტიS Dbტი hსწვიZ მიეტინი დტი| G მტიq 00Every  
rouble spent on education brought in four roubles00|

**ւեղլ, անձը I  
Rbհի**

fvi՜Zi Gg, Gg Avbmivx 17ււ iv՜R՛i 1978 I 1981 mvtj i cwi msL՛vb եե՜k- IY K՜i  
Zui 00Educational expenditure and Economic growth00 bvgK cե՜tU ֆ՛ււււււււ  
th, 00ibi ղի I անձը GKB ւ՛՜K amez nq Ges GKււ Aciuւ՜K kւ՛քvj x K՜i | KviY  
thme GjvKvq AւաK msL՛K ւbi ղի i լq՜Q, ֆmLւ՜b անձը ւbւeoZv (Intensity of  
Poverty) ֆեւ՜00 | AZGe անձը յxKiY Ges Avq եeZi՜Y ւեղլի Ae՛vb Ab՛՜Kiv՜  
Gg Gg Avbmivx GKB cե՜tU ֆ՛ււււււււ th, 00gւnj vt`i ւեղլ եւ ֆctj Rbհի K՜g  
Av՜m00 | ZvB RbmsL՛v եւ ֆnvi ւbq՜՜Yi Rb՛՛ gւnj vt`i՜K e՛vcKֆե ւեղլի mֆ  
mս՛ւ,՜ Ki՜Z ւZւb mջւի k K՜ib |

A\_ճւււււ Dբդի Ab՛Zg cհvb kZ՞n՜0 k՜gK՜ i Drcv՛ bկյ Zv եւ ֆgvbյ Բն,  
ւեղլ, ղZv, եւ ֆgEv cֆււււււ mւնի՜ Drcv՛ bկյ Zvi ֆK՜kյ mգ ֆB Ki՜Z cֆի | k՜g  
kւ՛քi Drcv՛ bկյ Zv ւ՛i ւKQyb՜n | Gււ՜K cհւ՛ք, gvbյ i tgav Ges ւmսֆ՜՜i gva՜g  
cւիeZՅ Kiv հvq | Drcv՛ bկյ Zv եւ ֆi gva՜g gvbյ i Avq եւ ֆctq ֆւK | G՜Z thgb  
e՛ւ՜ DcKZ.nq GKBFֆե mգւR Ges ֆ՜kI DcKZ.nq | Drcv՛ bկյ Zvi GB եւ ֆ՜kI  
A\_ճւււււ Dբդի Rb՛՛ Aek՛B c՜qւRbւq | GRb՛՛ e՛ւ՜ Ges Rւււ Z\_ֆ k ev ֆ՜kI  
mi Kvi՜K ւեղլ Ges c՜k ղիYi Rb՛՛ A\_ե՜q Ki՜Z nq |

**cճրc՛ Kււ.I ւեղլ i  
Rb՛՛ cւի Kււ Z ւեղլ**

Dբդկյ ֆ՜k\_ֆյ vi A\_ճւււււ Dբդի Rb՛՛ Kււ.I ւեղլ i ֆա՜Zi Acւի mք | ւեղլ i  
հֆ\_ւchյ Dբդ մւab Ki՜Z bv cֆի ղ Kււ.Lւ՜Zi Dբդ մե nq bv | KviY Kււ.Lւ՜Zi  
Drcv՛ b I Dբդ c՜qւRbւq մի, Kււ.մսււK՜ h՜՜cւււ cֆււււ e՛ւււի՜K մե  
nqb | ֆKvb cճրc՛ ւեղլ LւZ G\_ֆյ միeւն Ki՜Z cֆի bv | GKBFֆե cճրc՛  
Kււ.LւZ I ւեղլ Dբդ h\_ֆ\_ֆւKv cյj b Ki՜Z cֆի bv | KviY Kււ.LւZ ֆ՜K B ւեղլ i  
Rb՛՛ c՜qւRbւq Kււֆյ I Lւ՛՜km՛ միeւն Kiv nq | ֆKvb ֆKvb Dբդկյ ֆ՜k  
ւեղլ Lւ՜Zi Z՜bւq Kււ.Lւ՜Zi Dբդ Kg gֆbֆիււ nq | ղ ղ Kււ.Lւ՜Zi cճրc՛ Zvi  
Kvi՜Y ւեղլ LւZi cճրc՛ ֆ՜K հvq | cւի Kււ Z ւեղլ B bւււ ւbա՜K I cւի Kի bււ ֆ՜ i  
Բնի ֆֆ՛ Kւււ՜q DV՜Z mւնq Zv K՜i | ղ ղ Kււ.I ւեղլ i ֆւիւււ Dբդի gva՜g  
A\_ճւււււ Dբդ K Mւււււ Kiv հvq | ֆKvb ֆ՜kI A\_ճւււււ Dբդ gvbյ i Afւմ,  
ֆֆֆֆ cֆւււււ cւիeZՅ c՜qւRb | Kււ.՜Z mbvZb cււււ Avkի ֆւK՜j Kււ.Lւ՜Zi  
Dբդի c՜ւււ Kiv նե մյի cւււ | ւեղլ gւյ K՜ i gֆS Dֆ՛ււ Ges ֆc՜Yi Afւ  
նյ, k՜gK՜ i gֆS mZZv Ges cւի k՜g gֆbֆիււ Afւ նյ e՛qeւյ ւեղլ KviLvb  
ֆcb K՜i I ֆ՜kI ֆKvb Dբւ նե bv | RbմւիYi gֆS Dբդի c՜Z Abյււ I cյֆb  
Afւմi cւի e՜Z Dբդի ֆcււ K bZb Afւմ Mտ Z՜՜Z ւեղլ AZ՛՜ մւնq n՜Z  
cֆի | G ւեղլ K Aek՛B n՜Z նե cւի Kււ Z, հ՜Mvcֆիււ I ւեւvb gb՛ |



### cvWĒi gj'iqb: 3.2

#### A) eūbePbx cĕæ

mWk DĒi ūt`R gj-K AŋiūK eĒiqZ Kiab | (D`vniY: Avcbvi ūbePZ DĒiū ŌKŌ ntj GtK Ⓚ eĒiqZ Kiab)

1/ 1909 t\_ŋK 1957 mij chSĭ gwKĖ hŷivtŏ th A\_ŋwZK Dbqb NtūQ Zvi kZKiv KZfVM ūKŋvi eŋ`šj tZ msMwZ ntqtQ?

K. 30 fVM

L. 25 fVM

M. 23 fVM

N. 21 fVM |

2/ 1917 mtj iŋkqvi tgvU RbmsL`vi kZKiv KZfVM ūbiŋi ūQj ?

K. 70 fVM

L. 75 fVM

M. 80 fVM

N. 90 fVM |

3/ gŋjvt`i ūKŋvi ewx tctj Rbŋvti ūK aiŋbi cwi eZĖ nq?

K. Rbŋvi Ktŋ Avtŋ

L. Rbŋvi cŋeP gZB t\_ŋK hvq

M. Rbŋvi mvgvb` teŋo hvh

N. Rbŋvi AwZwi ³fite teŋo hvq |

4/ 1960 t\_ŋK 1963 mij chSĭ tmwftqZ BDŋbqtŋ ūKŋvi Rb` GK iæj e`tq ūK djvdj ARĖ Kiv mæe ntqŋQj ?

K. Every rouble spent on education brought in two roubles.

L. Every rouble spent on education brought in three roubles.

M. Every rouble spent on education brought in four roubles.

N. Every rouble spent on education brought in ten roubles.

#### Av) msŋŋB DĒi cĕæ

1. gvbŋi mŋŋi Zvi mt\_ Avq ewxi ūK mæúKŋŋtqtQ?

2. cwi Kwí Z ūKŋvi mt\_ `wi`Zv I Rbŋvti i mæúKŋŋ?

3. cŏvrc` Kw..I ūktŋi Rb` cwi Kwí Z ūKŋvi cŏqvRbxqZv e`vL`v Kiab |

**B) iPbugj-K c`kæ**

1. uk`ŋv mæútk©cwi Kí bve`t`i gZvgZ, t`jvi weeiY w`b| Rvcv`tbi A\_`%bWZK Dbq`tb cwi Kwí Z uk`ŋvi , iæZ; mæútk©Avtj vKcvZ Kiab|
2. cwi Kwí Z uk`ŋv ZrKvj xb tmvfv`tqZ BDvbq`tbi A\_`%bWZK Dbq`tb th Ae`vb ti`tLuQj Zv Avtj vPbv Kiab|
3. gvuk`h hÿ ivtói A\_`%bWZK Dbq`tb uk`ŋvi Ae`vb weeZ Kiab| 00cwi Kwí Z uk`ŋvi mv`t\_ Kul. I uk`tí vbq`tbi thvMmF i`tqtQ00 e`vL`v Kiab|

**mWk DËi:**

A) 1| N    2| L    3| K    4| L





cwi gvtY e`MZ gj-ab weib`qvm Kti G Ae`v mstkrab Kiv thtZ cvti | uk`qv D`Pzi  
`ti AwZgvIvq mvgvex t`qti wekIA mwp bv Kti tckvMZ c`vZm=ubae`w`f`i`K GK  
ev`B eQti wekI tUibs c`v`bi gva`tg wekIA`i`i`vb ciY Kiv thtZ cvti | thme  
t`k uk`qv wep`b e`w`MZ AwfiaP Abjvqx m=ubentq `v`K tmme t`k Pwn`v I  
mieivni wqgvblyvqx mvgAm` Nuevi AvMB AmvgAm` ,iazi ifc wbtZ cvti | uk`qv  
cwi Kivbi gva`tg c`Ztivagj-K e`e`v MhY Kti Rbm=ut`i Pwn`v I mieivni  
AmvgAm` `i Kiv thtZ cvti | gvbueK m=ut` Dbq`bi gva`tg Gt`qti uk`qv cwi Kiv  
A\_`wZK, gvbueK I mvgvRK AM`vzi mnvqK nq |

### MogY Dbq`

c`Z`Kw Dbq`bkj t`tki RvZiq Dbq`bi wR`^ukQy`enkó` itqQ Ges Dbq`bkj  
t`kmg`ni Abq`bi tcQtb ukQymvavi Y (Common) `enkó`I itqQ| Gai`bi mvavi Y  
`enkó` ,tjv nj :

**Dbq`bkj t`tki MogY  
mgv`Ri `enkó`**

1. `q Rbm=ut`i Ach`BZv
2. Ach`B wbtqvm
3. kgkiv` I fvgi fvi mvg`nxbZv
4. Drcv``bi Amsj MamvgvRK A\_`wZK e`e`vcbv
5. MogY Dbq`bi Abz`thvMx c`Z`v
6. cv`Ri Ach`BZv
7. Kul .A\_`vzi wbg`zg `qZv
8. Kul.Rixt`i Rixt`bi wbg`v bcfvZ.

Dbq`bkj t`kmg`ni Kul.i c`vrc`Zvi `iab Kul. Drcv`b evx`z `leiZv t`Lv t`q |  
Drcv``bi `leiZv evRvi Dbq`b `leiZv mwp Kti | dtj A\_`vzi Ab`vb` kvLvmg`ni  
Dbq`b evavM` nq | A\_` Kul. Dbq`b Ae`Avi dtj A\_`vzi Ab`vb` t`qti Dbq`b  
AwKzi Kó mva` nq hvq | GtZ fvi mvg`fite A\_`wZK Dbq`b m`e nqbv | Kul.i  
`leiZv KvUtq DVvi Rb` ukv`qz I c`k`qy c`B Kg`evwvxi tKiv weKí tbB | Avt`v Kv  
I BDti`ci Awf`Zv t`k t`Lv hvq th, Pvlvaxb Rvgi cwi gvY Ges Kul.tZ Rbwb`qvm  
Kgt`bv ntj I Kul. Drcv`b D`j - L`thvM` nvti evx` Kiv m`e | G m=ut`K©1962 mtj  
Aa`vcK g`vj vmm Zvú úúIntellectual investment in Agriculture for Economic  
and Social Developmentúú bvgK c`t`ú D`j - L Kti`Qb th, úúAv`bi m`q b I m`vj b  
AM`ni t`kmg`ni Kul. c`vxi tg`vj K Dcv`vb wntmte KvR Kti`Qúú |

Dbq`bkj t`kmg`ni uk`qv e`e`vq t`Lv hvq th, MogY A\_`vzi wbtq coev uk`qv`x` i  
cwi gvY wZv`B Kg | G me t`k t`Lv hvq `q I c`k`qz Kul. Kg` c`ú Afive Ges  
KIKt`i AwKvskB wbi`q | Gme t`tki A\_`vzi gj-LvZ Kul. ntj I `jLRbKfite  
j`q` Kiv hvq th, Awk`qv, cv`nxbZv cfvZ. `q Rbkiv`i Afive, Ach`B Lv` BZ`v`i  
mvt` thb nvZ nvZ titL Pj`Q | wbeofite Kul.tZ Pvlv` cx`vz PjyKtZ cvitj Ges  
c`qvRbxq Kul. ms`vi mvab KtZ cvitj Kul. Drcv``bi `leiZv KvUtq DVvi m`e |  
GRb` c`qvRb itqQ `q Rbkiv`i I c`qvRbxq c`v`i |

**cwi Kw Z fite ukᄡv I MōgxY A\_ᄡmZi Dbq̄b**

cwi Kw Z fite ukᄡv e'e-vi Dbq̄b KitZ cviᄡj Kwli Rb" cōqurBxq ukᄡv I ᄡᄡ Rbkiv<sup>3</sup>, cōh<sup>3</sup> mieivn I Gi mōzccōqm Kiv m<sup>3</sup>e nq| GtZ mgMōA\_ᄡmZi ōōū`-ū`ōō Kwli. nᄡq DᄡV MuzKxj | Kwli MuzKxj Zv MōgxY A\_ᄡmZi Ab'vb" DcvbōmbK (Non Formal) tm±i ev Dcᄡm±i mgfni MuzKxj Zv `vb KitZ cviᄡ| dᄡj MōgxY RbMᄡYi A\_ᄡmZK `ᄡj Zv Avᄡm| MōgxY A\_ᄡmZi GB mᄡᄡqZv I `ᄡj Zv Mōg einᄡZ A\_ᄡmZK LvZ, ᄡjvi Dbq̄bI mnvqK nq| Gfite t`Lv hvq th, mōzI mᄡi ukᄡv cwi Kí bvi gvaᄡg MōgxY A\_ᄡmZ, mgvR, ms`wZᄡZ abvZK cwi eZᄡ mᄡmZ nq|

**bvix ukᄡv I Dbq̄b**

th tKiv t`ᄡki RbmsL`vi cōq 50% nᄡjv bvix| RbmsL`vi AᄡRᄡK Aukᄡv I Kgᄡx btiᄡL A\_ᄡmZK cēᄡxi KvirLZ j ᄡᄡ'gvᄡv ARᄡ Kiv m<sup>3</sup>e nq bv| Dbq̄bkxj t`kmgᄡn agᄡᄡ tMvavgx, mvgvRK Kzs`vi, ᄡbcxob I `elᄡᄡi teovRᄡj Aveᄡ tᄡL bvix`i cwi evᄡi gᄡj, ᄡkihZæI NiKbni KvᄡR mᄡvex ivLv nq| GtZ t`ᄡki mvgvRK I A\_ᄡmZK Dbq̄b evavMō`nq| bvix`i ukᄡv Kivi Rb" hᄡ\_vchᄡ ukᄡv cwi Kí bv MōY Kitj ukᄡv bvixiv RvZxq Dbq̄b mᄡᄡq fᄡgKv cvjb KitZ cviᄡ| GtZ bvixiv AvZᄡbᄡᄡᄡ I AᄡKvi mᄡPZb nq| RvZxq Drcv`ᄡb AskMōᄡY bvixiv h\_v`ᄡfᄡgKv cvjb KitZ cviᄡ| cwi Kw Z fite bvix`i ukᄡv KitZ cviᄡj ᄡbtg<sup>3</sup> RvZxq j ᄡᄡ'mgᄡ AvRᄡ nᄡZ cviᄡ|

**ukᄡv I bvix`i mᄡhM eᄡ**

- bvix`i AvZKgᄡs`vᄡbi mᄡhM eᄡ|
- Dbq̄b Kgᄡvᄡ AskMōY I Av`mvgvRK Ae`vi Dbq̄b|
- gvbem<sup>3</sup>ᄡ`Dbq̄b, `vni`ᄡᄡetgvPb I mgvRᄡK DbmZi cᄡ AMᄡi Kiv|
- Dbᄡ `ᄡᄡfᄡ MVb, thSZK I bvix ᄡbhᄡZb ᄡbtiva Ges bvix I cᄡᄡli cvi`ᄡvni K kᄡvKxj nI qv|
- RbmsL`vi cēᄡ mᄡKvPb, mᄡi I `ᄡᄡᄡ`gq cwi evi MVb cᄡᄡZ|

**mgvᄡRi `ᄡᄡZi RbᄡMōxi ukᄡv I Dbq̄b**

**`ᄡᄡ RbᄡMōxi ukᄡv Rb" eᄡ I tKiv msi ᄡᄡ**

t`ᄡki RbMᄡYi gᄡᄡ mvgvRK I A\_ᄡmZK fite `ᄡᄡZi `vni`ᄡRbᄡMōx iᄡᄡQ| `vni`Zvi dᄡj Giv ukᄡv ARᄡ KitZ cviᄡbv| Avevi kni I Mōᄡgi gvbᄡi gᄡᄡI ukᄡv mᄡhM mgfite eᄡUZ nᄡ`Qbv| ᄡᄡ`ᄡᄡᄡᄡ RbᄡMōx ᄡᄡᄡI Zᄡmᄡ m<sup>3</sup>ᄡᄡᄡᄡ, ᄡjvi (Schedule Castes) ukᄡv mᄡhᄡMi AchᄡZv cwi jᄡᄡ nq| DcRvZxq RbᄡMōx (evsᄡᄡᄡᄡ Pvkqv, Mᄡiv, nvRs, KᄡK, gvigv mᄡZvj cᄡᄡZ) `vni`Zv Ges Rᄡeb hvcᄡbi cᄡᄡZi ᄡᄡᄡᄡ KviᄡY ukᄡv t`ᄡK eᄡᄡZ nq| ukᄡv cwi Kí bv cᄡᄡKvᄡj cwi Kí bvi e`MY Aek`B mgvᄡRi `vni`ᄡ mvgvRK `elᄡᄡi ukKvi RbᄡMōxi gvᄡS ukᄡv m<sup>3</sup>ᄡᄡᄡᄡ, iazj cōvb Kᄡi `vᄡKb| GmKj RbᄡMōxi gvᄡS ukᄡv m<sup>3</sup>ᄡᄡᄡᄡᄡᄡ jᄡᄡᄡ ᄡᄡᄡ`vj q, tgvWK`vj Kᄡj R Ges Bᄡᄡᄡᄡᄡᄡ ᄡᄡᄡ`vj q I Ab'vb" ᄡᄡᄡᄡᄡᄡᄡ cōZōᄡᄡ Zvᄡ`i fᄡᄡᄡ Rb" Avmb msi ᄡᄡ Kiv nq| DcRmZᄡ`i Rb" ᄡᄡᄡᄡ ukᄡv Kgᄡᄡ MōY Kiv nq| Zᄡmᄡ I DcRmZ ukᄡv`ᄡᄡ i Rb" ᄡᄡᄡᄡ ukᄡv eᄡᄡ e'e`v Kiv nq| Mōg Ges knᄡi `vni`ᄡRbᄡMōxi gvᄡS ukᄡv m<sup>3</sup>ᄡᄡᄡᄡᄡᄡ ᄡᄡᄡᄡ aiᄡbi Kgᄡᄡ MōY Kiv nq| ukᄡv I mᄡᄡiZv Zᄡmᄡ Ges DcRmZ I `vni`ᄡRbᄡMōxᄡK A\_ᄡmZK, mvgvRK I ivRᄡᄡᄡK fite ᄡᄡZveib Kᄡi|

cyRev`x mgvR e`e`iq GB be qgZvevb e`w<sup>3</sup>iv ubR ubR m<sup>u</sup>uvtq GK bZb aib<sup>i</sup>  
mvgvRK-A\_`%wZK ivR%wZK KvVvtgv m<sup>u</sup>o Kti| Gt`i gvtS MYZm<sup>s</sup>K gj`teva, ag<sup>o</sup>  
ibi`c`qZv, mvgvRK b`vqciVqZvteva c`fuz. RvM<sup>Z</sup> nq| kni Ges M<sup>o</sup>tg Gme Rb<sup>t</sup>Mv<sup>o</sup>x  
Drcv`bglyx Kv<sup>t</sup>Ri c<sup>o</sup>Z AvM<sup>o</sup>hYm<sup>o</sup>Z nq| Gfite t`tki RvZiq Dbq<sup>t</sup>b mgv<sup>t</sup>Ri `g<sup>o</sup>Zi  
Astki Rb<sup>t</sup>Mv<sup>o</sup>x , iaZcy<sup>o</sup>Ae`vb ivtL|

### Av<sup>o</sup>ij K I `vbq Dbq<sup>t</sup>b

A<sup>t</sup>bK t`tkB mvgvRK I A\_`%wZKfite c<sup>o</sup>irc` AAj ev`vb \_vtK| Gme c<sup>o</sup>irc`  
GjvKiq uk<sup>o</sup>qV<sup>o</sup>MZ Ges Ab`vb` AeKvVvtgvMZ c<sup>o</sup>irc`Zv cwi j<sup>o</sup>qZ nq| evsj v`tki  
DEivAj Ges creZ`<sup>o</sup>AAj , tjv uk<sup>o</sup>qVq Abq<sup>o</sup>Z Ae`iq itqtQ| uk<sup>o</sup>qV cwi K<sup>i</sup>bv c<sup>o</sup>qKvtj  
cwi K<sup>i</sup>bvme`MY uk<sup>o</sup>qVq Abq<sup>o</sup>Z `vb I AAj mg<sup>t</sup>ni uk<sup>o</sup>qVvbq<sup>t</sup>b e`vcK Kg<sup>o</sup>px M<sup>o</sup>h<sup>t</sup>Yi  
m<sup>o</sup>g<sup>o</sup>mi k Kti \_vtKb| c<sup>o</sup>irc` `vb I GjvKvmg<sup>t</sup>n ubi q<sup>o</sup>iZv `ixKiY, meRbx c<sup>o</sup>ugK  
uk<sup>o</sup>qV, eq`uk<sup>o</sup>qV, bivmea e<sup>o</sup>g<sup>o</sup>K uk<sup>o</sup>qV, gva`igK uk<sup>o</sup>qV c<sup>o</sup>fuz. Kg<sup>o</sup>px M<sup>o</sup>h<sup>t</sup>Yi dtj Gme  
GjvKvi gvb<sup>t</sup>i gvtS uk<sup>o</sup>qV<sup>o</sup>Zi nvi e<sup>o</sup>x tctZ \_vtK| Gme uk<sup>o</sup>qV<sup>o</sup>Z e`w<sup>3</sup> Zv`i uk<sup>o</sup>qVi  
gva`tg AvR<sup>o</sup> Avb I `qZv Drcv`bglyx Kv<sup>t</sup>R ubtqv<sup>o</sup>RZ Ki<sup>t</sup>Z m<sup>t</sup>o nq| RvM<sup>Z</sup>, ag<sup>o</sup>  
tMv<sup>o</sup> ubv<sup>o</sup>ek<sup>t</sup>i bvi<sup>o</sup> I c<sup>o</sup>ja<sup>o</sup>li uk<sup>o</sup>qV<sup>o</sup>MZ `elg` `t nq| gvb<sup>t</sup>i gvtS Amv<sup>o</sup>u<sup>o</sup>mqK,  
MYZm<sup>s</sup>K tPZv<sup>o</sup>i D<sup>t</sup>b<sup>o</sup> nq Ges R<sup>o</sup>xbg<sup>o</sup>lyx, e`vb<sup>o</sup> I BvZevPK `p<sup>o</sup>f<sup>o</sup>zi meKvK N<sup>t</sup>U|

**Abq<sup>o</sup>Z `vb I AAj i  
Dbq<sup>t</sup>b uk<sup>o</sup>qVi Ae`vb**

AvR<sup>o</sup> Avb I `qZv<sup>o</sup>K `vbq uk<sup>o</sup>i I Kul. Drcv`tb c<sup>o</sup>qv<sup>o</sup>Mi gva`tg c<sup>o</sup>irc` `vb I  
GjvKvi RbMY Drcv`b e<sup>o</sup>x<sup>t</sup>Z , iaZcy<sup>o</sup>Ae`vb ivtL| Drcv`Z Gme cy` `vbq,  
Av<sup>o</sup>ij K I RvZiq P<sup>o</sup>nn`v ciY Kti \_vtK| Gfite cwi K<sup>o</sup>ir Z `vbq I Av<sup>o</sup>ij K uk<sup>o</sup>qV  
`vbq, Av<sup>o</sup>ij K I RvZiq A\_`%wZK Ges mvgvRK Dbq<sup>t</sup>b Ae`vb ivtL|

Dch<sup>o</sup> eY<sup>o</sup>v t`tk t`Lv hvq th, cwi K<sup>o</sup>ir Z uk<sup>o</sup>qV-

- Rbm<sup>o</sup>u<sup>t</sup> i P<sup>o</sup>nn`v ubi<sup>o</sup>cy I Zv mieiv<sup>o</sup>ni gva`tg t`tki RvZiq Dbq<sup>t</sup>bK M<sup>o</sup>zK<sup>o</sup>j  
Kti \_vtK|
- M<sup>o</sup>gxY A\_`%wZi newf<sup>o</sup>beAvb<sup>o</sup>mbK I Dcvb<sup>o</sup>mbK LvZ Drcv`b I ubtqv<sup>o</sup>Rb e<sup>o</sup>x<sup>i</sup>  
gva`tg RvZiq AM<sup>o</sup>M<sup>o</sup>Z mvab Kti |
- bvi<sup>o</sup>x`i AvZ<sup>o</sup>Kg<sup>o</sup>is`vb, `vii`<sup>o</sup> me<sup>o</sup>gvPb, RbmsL`v e<sup>o</sup>x<sup>t</sup>iva Kti t`tki mvgvRK I  
A\_`%wZK Dbq<sup>t</sup>b Ae`vb ivtL|
- A\_`%wZK I mvgvRKfite c<sup>o</sup>irc` Rb<sup>t</sup>Mv<sup>o</sup>xi Dbq<sup>t</sup>bi c\_`c<sup>o</sup>l<sup>o</sup> Kti| t`tki  
c<sup>o</sup>irc` `vb I AAj mg<sup>t</sup>ni Dbq<sup>t</sup>bi M<sup>o</sup>Z e<sup>o</sup>x Kti |



### **cᚱVĒi gj'iqb: 3.3**

#### **A) eūbePbx cĕæ**

mīWK DĒi ūt`R gj-K Aᚦiūtk eᚦvīqZ Kiab | (D`vniY: Avcbvi ūbePZ DĒiū ŌKŌ ntj GtK Ⓚ eᚦvīqZ Kiab)

- 1/ RvZiq Dbq̄b ūKifc avi Yv?  
K. GKūJ tcsīvīYK avi Yv  
L. GKūJ AᚱeZīRvj xb avi Yv  
M. GKūJ fveev`x avi Yv  
N. GKūJ MvZkxj I ƒY% avi Yv|
- 2/ ūKᚦv cwiKíbvī gva`tg ūK aiᚱbi e`e`v MhY Kᚦi Rbmáú`i Pwīn`v I mieivᚦni AmvgĀm` `i-Kiv hvq?  
K. cĀZᚦkvagj-K e`e`v  
L. A`vqx e`e`v  
M. cĀZᚦivagj-K e`e`v  
N. AZ`wāK mieivngj-K e`e`v|
- 3/ Pvlvaxb Rūgi cwi gvY Ges KulᚦZ ūbtqvRb Kgvᚦbv ntj I Kul.Drcv`b m`úᚦK<sup>Ⓢ</sup> Avᚦgwi Kv I BDᚦivᚦci AwfĀZv ūK?  
K. AvbgwīZKvᚦi Kul.Drcv`b nwm ciq  
L. Dᚦj - LᚦhvM`nvi Kul.Drcv`b ep̄x Kiv m`æ  
M. e`vcKfᚦte Kul.Drcv`b Kᚦg hvq  
N. Kul.Drcv`ᚦb `weiZv ᚦ`Lv ᚦ`q|

#### **Av) msūᚦB DĒi cĕæ**

- 1. cwi Kūī Z ūKᚦv I MōgxY A\_ᚱwīZK Dbq̄ᚦbi thvMmĪ-Zv e`vL`v Kiab|
- 2. cwi Kūī Zfᚦte bvixᚦ`i ūKwᚦjZ KitZ cviᚦj thme RvZiq j ᚦᚦ` AwRZ ntZ cvᚦi Zv Dᚦj - L Kiab||
- 3. DcRvZiq RbᚦMvōx I Zdmxj m`úᚦvqᚰᚦjvi Rb` cwi Kūī Z ūKᚦvi Ae`vb m`úᚦKᚦj Ly|

#### **B) iPbgj-K cĕæ**

- 1. mvgvīRK, A\_ᚱwīZK, ivRᚱwīZK cwi c`Zv ARᚦb Ges Rbmáú`i Pwīn`v I mieivn ūbiacᚦY cwi Kūī Z ūKᚦvi ᚰiᚦZji weeiY w`b|
- 2. Dbq̄bkxj ᚦ`kmgᚦni Abᚱq̄ᚦbi ᚦcQᚦb thme mvaviY `enkó` itqᚦQ Zv eYᚱv Kiab| Mōgxb mgvR-A\_ᚱwīZᚦZ Ges bvix mgvᚦRi Dbq̄ᚦb cwi Kūī Z ūKᚦvi cĀqvRbxqZv m`ᚦŪ Avᚦj vPbv Kiab|
- 3. Ūcōvrc` AĀj ev`vb Ges mgvᚦRi `ᚱᚦ RbᚦMvōxi Rb` cwi Kūī Z ūKᚦv I RvZiq Dbq̄b Aᚰvᚰxfᚦte RwoZŪ K\_vū e`vL`v Kiab|

**mīWK DĒi:** A) 1| N 2| M 3| L

## References

1. *তত্ত্ব: এন এম মিয়া, রিজার্ভ ডিপার্টমেন্ট, ইন্ডিয়ান ইনস্টিটিউট অফ এডুকেশন, 1995।*
2. *গণতন্ত্র কবিগণের তত্ত্ব - হক, আবদুল হাছান আল-গাজি-কিদ্দাব, এসজি কবিগণের তত্ত্ব, 1968।*
3. Laxmi Devi-Editorial Chief, Encyclopaedia of Educational Development and Planning.  
VOL-3, 4 and 5. Anmol Publications Pvt. Ltd., New Delhi, 1996.
4. C S NAGPAL. A C MITTAL. Editors  
Perspectives in Modern Economics, Vol-15  
Anmol publications, New Delhi. 1972.



## Dit`k`

GB cW tk`l Avcib-

- *cwi msL`vtbi Drm m`u`K`c`qur`bxq Z`w` Dj - L Ki`z cvi`teb;*
- *cwi msL`vtb msAv I`ek`o` Dj`L Ki`z cvi`teb;*
- *uk`qv cwi Ki`bvq cwi msL`vtbi Kv`h`ej`x`l c`qur`bxqZv eY`bv Ki`z cvi`teb|*

*cwi msL`vb GKwU ve`Avb| cwi msL`vb ev Statistics kawU j`wU`b ka` Status` n`z` m`j`o` n`q`q`| c`g` w` tk` cwi msL`vb kawU iv`to`f` u`l`qv`Kj`vc` m`u`k`z Z`ve`j`x` e`S`v`z` e`u`z` n`j`l` cie`z`x`z` Gu`v` Av`i`v` e`v`c`K`z`i` A`z`\_`e`u`z` n`q`q`| Av`aj`b`K`k`v`j` cwi msL`vb kawU` `w` Av`j`v`v` A`z`\_`e`u`z` n`q`| G`k`e`P`b`v`\_`c`w`i` m`S`L`v`b` Av`t`b`i` G`g`b` GKwU` kv`L`v` h`v` t`K`v`b` m`g`m`v` m`u`k`z` Z`ve`j`x`i` h`v`\_`q`m`si`q`v`y` c`x`w`z` v`b`i`a`c`y` D`c`v`c`b` ve`t`k`d`Y`l` m`x`v`i`S`i`M`h`Y` K`t`i`| Z`v`Q`v`o`r` ve`t`k`w`l` Z`G`m`K`j` Z`\_`t`\_`t`k`m`z` D`N`v`U`t`b`i` c`x`w`z` Av`t`j`v`P`b`v` K`t`i`| A`b`w`v` t`K` e`u`e`P`b`v`\_`c`w`i` m`S`L`v`b` e`j`z` ve`t`k`l` c`x`w`z`z` m`S`M`p`x`z` t`K`v`b` ve`t`k`l` ve`l`t`q`i` Z`\_`i`v`k`t`k` e`S`v`q`| t`h`g`b` u`k`q`v` cwi msL`vb` t`K`v`b` t`\_`t`k`i` R`b`m`v`a`v`i`t`Y`i` u`k`q`v` m`u`k`z` Z`\_`m`g`r`| AZ`G`e` G`k`e`P`b`v`\_`c`w`i` m`S`L`v`b` n`t`Q` Av`t`b`i` GKwU` kv`L`v` Ges` e`u`e`P`b`v`\_`c`w`i` m`S`L`v`b` n`t`Q` m`S`M`p`x`z` Z`\_`i`v`k` (Mass of Information)|*

## cwi msL`vtbi msAv

*cwi msL`vtbi t`K`v`b` G`K`K` Ges` me`f`a`z` msAv` t`b`| we`f`b`e`c`w`i` m`S`L`v`b`v`e` cwi msL`vtbi` we`f`b`e`m`S`Av` c`v`b` K`t`i`z`Q`b`| Avi` G` v`d`m`v`i`i` g`z` The Science of statistics is essentially a branch of Applied Mathematics, and may be regarded as mathematics applied to observational data A`\_`f`r` o`o`c`w`i` m`S`L`v`b` ve`Av`b` n`j`v` g`j`-`Z` d`w`j` Z` M`v`Y`z`i` GKU`v` kv`L`v` Ges` m`e`z` c`h`e`e`q`v`Y`K`z` Z`\_`i` t`q`t`i` M`v`Y`z` c`q`v`M`o`| G`G`j` e`v`D`j`x`i` g`z` Statistics are numerical statement of facts in any department of enquer placed in relation to each other o`o`c`w`i` m`S`L`v`b` t`K`v`b` N`U`b`v`i` m`S`L`v`z`K` e`Y`bv` h`v`v`v` A`b`v`i`U`v`t`b`i` o`v`i`v` c`v`i` `u`v`i` K` m`u`k`z`m`j`o` K`t`i`o`|*

*I`t`q`e`o`v`i`i` g`z` cwi msL`vb` n`j`v` o`o`The classified facts respecting the condition of the people in a state, especially those facts which can be stated in numbers or in table of numbers or in any tabular or classified arrangement" cwi msL`vb` ve`Av`b` n`j`v` t`K`v`b` iv`to`f` R`b`m`v`i`t`Y`i` Ae`v` m`u`k`z` t`k`Y`x`e`x` Z`ve`j`x`-`ve`t`k`l` f`v`t`e` t`m`m`e` Z`\_` t`h`\_`t`j`v` m`S`L`v` ev` m`S`L`v`i` m`v`i`Y`x` A`\_`ev` t`h` t`K`v`b` a`i`t`b`i` m`v`i`Y`x` Av`K`v`i`t`i` ev` t`k`Y`x`e`x` we`b`v`t`m` we`z` K`i`v` h`v`q`|o`|*

*I`t`q`e`o`v`i` cwi msL`vb`t`K` iv`to`f` R`b`m`v`i`t`Y`i` Ae`v` m`u`k`z` Z`ve`j`x`i` g`ta`" m`x`g`v`e`x` t`i`z`l`z`Q`b`| cwi msL`vtbi` K`g`e`v`v`B` e`v`c`K`| u`k`q`v` m`S`w`z` A`\_`o`v`z` K`w`l` u`k`i` c`f`w`z`m`n` e`u` t`q`t`i` m`g`m`v` m`g`v`a`v`t`b` cwi msL`vtbi` b`v`b`v` Z`E`j` I` m`f`ve`j`x` \_`i`a`z`c`Y`o` f`v`g`K`v` iv`t`l`| I`t`q`e`o`v`i`i` m`S`Av`q` G`m`e` t`q`t`i` D`t`c`u`q`v`Z` n`t`q`t`Q`| Avi`G` v`d`m`v`i` cwi msL`vb`t`K` d`w`j` Z`*



Mwḡzi kvLv wntmte wetePbv Kivi dtj BḡKvḡvḡgUkm, mvBḡKvḡgU<sup>o</sup> cḡwZ. DḡcivḡZ nḡḡQ|

G.Gj evDvj cwi msLḡvbḡK tKvb NUbvi msLḡvZK eYḡv etj Gi cwimiḡK wḡw<sup>o</sup> MḡḡZ mḡvex KḡiḡQb| cwi msLḡvḡbi cYḡ<sup>o</sup> msÁv wḡḡḡQb GBP. tmKwi ó| Zvḡ ḡḡZ, ḡḡBy statistics we mean aggregate of facts affected to a marked extent by multiplicity of causes, numerically expressed, enumerated or estimated according to reasonable standard of accuracy, collected in a systematic manner for a pre determined purpose and placed in relation to each other<sup>o</sup> ḡḡcwi msLḡvb ḡviv Avgiv tKvb ceḡbaḡi Z DḡḡḡK<sup>o</sup> cḡvj xexḡvte msMḡxZ Ges cvi ḡḡwi K mḡúḡK<sup>o</sup>ms<sup>o</sup>wicZ, wḡfḡZv hḡḡmḡZ ḡvb Abyḡḡi msLḡvq cḡKvḡZ cḡ<sup>o</sup>vj Z ḡvb Ges eḡnea KviY ḡviv j ḡḡYxq ḡvḡvq cḡḡwZ Z<sup>o</sup>vej xi mḡḡḡK eyḡḡ| GBP. tmKwi ḡḡi ḡḡlqv msÁvḡi cYḡ<sup>o</sup>Zvi ḡḡḡ GUḡK ḡḡZi mḡ<sup>o</sup> MḡY Kiv thḡZ cvi|

**cwi msLḡvḡbi ḡḡkó**

KZK<sup>o</sup>ḡjv mḡw<sup>o</sup> ḡḡkó<sup>o</sup>i wḡḡḡZ tKvb Z<sup>o</sup>ḡK cwi msLḡvb ejv hvq| th tKvb Z<sup>o</sup>ḡi wḡḡḡB cwi msLḡvb ejv hvq bv| tKvb Z<sup>o</sup>ḡi wḡḡḡK cwi msLḡvb ejḡZ nḡj wḡḡPi ḡḡkó<sup>o</sup>ḡjv hvPvB Kḡi ḡḡḡZ nḡe|

**cwi msLḡvb Zḡ<sup>o</sup>i mḡḡ:** cwi msLḡvb tKvb GKḡKi ḡḡkó<sup>o</sup> bq, eis mḡḡḡi ḡḡkó<sup>o</sup>| tKvb ḡḡḡki ḡvaḡḡK wḡ<sup>o</sup>vjḡḡi wḡḡḡ<sup>o</sup>ḡḡi ḡv<sup>o</sup>wicḡyeḡq ejḡZ tmB ḡḡḡki ḡvaḡḡK wḡ<sup>o</sup>vjḡḡi Aaḡḡbi Z wḡḡḡ<sup>o</sup>ḡḡi Mo eḡḡḡK eḡḡvq| Bnv tKvb GKK eḡ<sup>o</sup>i Z<sup>o</sup>ḡḡ bq eis GKḡU wḡw<sup>o</sup> mḡMḡKi Z<sup>o</sup>ḡḡ|

**msLḡvZK cḡKv:** tKvb wḡḡḡv cḡZḡvḡbi wḡḡḡ<sup>o</sup>ḡḡi GmGmḡm cixḡḡvi djvdj mḡúḡK<sup>o</sup> RubḡZ nḡj wḡḡḡ<sup>o</sup>ḡḡi cviḡki kZKiv nvi msLḡvq cḡKv KḡḡZ nḡe| wḡK<sup>o</sup>ḡḡ YevPK tKvb kḡḡi mḡvḡḡ<sup>o</sup> cḡKv Kḡḡj Guv cwi msLḡvḡbi wḡḡe<sup>o</sup> nḡe bv|

**eḡnea KviY ḡviv cḡḡwZ:** cwi msLḡvb AḡbK<sup>o</sup>ḡjv KviY ḡviv cḡḡwZ nḡḡ<sup>o</sup>vḡK| thḡb- tKvb ḡḡḡki wḡḡḡvi nvi tm ḡḡḡki Av<sup>o</sup>mḡḡḡRK Ae<sup>o</sup>v, miKvi I RbMḡYi wḡḡḡv eḡq, wḡḡḡK cḡc<sup>o</sup>Zv, wḡḡḡvi AeKvWḡḡḡMZ Dbḡḡb cḡḡwZ. KviY ḡviv cḡḡwZ nḡḡ<sup>o</sup>vḡK|

**mḡRvZxq I Zḡbvḡj-K cwi msLḡvb:** ḡḡḡ wḡḡḡv tevḡW<sup>o</sup> cḡḡ wḡḡḡM DExY<sup>o</sup>GmGmḡm wḡḡḡ<sup>o</sup>ḡḡi kZKiv nvi h<sup>o</sup>vḡḡḡ 42 I 45| wḡḡḡv tevW<sup>o</sup>ḡḡi wḡḡḡ<sup>o</sup>ḡḡi Zḡbvḡj-K ḡvb Zvḡ<sup>o</sup>i cixḡḡvi djvdḡj i mḡRvZxq kZKiv nvi ḡḡḡ ḡviv mḡḡRB Zḡbvḡj|

**Z<sup>o</sup>ḡḡvḡḡvb ḡḡḡ cḡB cwi msLḡvb:** ḡḡḡḡK wḡḡḡ eḡḡZḡḡḡK msMḡxZ Z<sup>o</sup>ḡḡ cwi msLḡvb ejv hvḡe bv| Z<sup>o</sup>ḡḡvḡḡvḡbi ḡvaḡḡḡ cḡB Z<sup>o</sup>ḡḡB nḡjv cwi msLḡvb| thḡb 35 GKḡU msLḡv wḡK<sup>o</sup>ḡḡ GḡU tKvb cwi msLḡvb bq| wḡK<sup>o</sup>ḡḡ hḡ<sup>o</sup> ejv nq evsjḡḡḡK wḡḡḡḡZi nvi kZKiv 65 Zvḡḡḡ GḡU GKḡU cwi msLḡvb nḡe| KviY GḡU Abyḡḡvb ḡḡḡ cḡB|

**cwi msL`vb MYbvq I gvtb vbfŸthM Zv:** cwi msL`vřbi MYbv I gvtb mveavbZv Ae j`b KiřZ nře Ges MpxZ DcvE, řj v mivK I vbfŸ nřZ nře|

**mŸ;Lj cwi msL`vb:** cwi msL`vřbi Z` MřřY b`bZg řKvb j`Ÿ`nřbZv ev Avbqřgi `vb řbB| DcvE mŸ;Lj I j`Ÿ`vřfglyx nřZ nře|

**cwi msL`vřbi Kivřjx:** řKvb vrelq ev NUbvi msL`vřZK AvbřÜvb KivB nj cwi msL`vřbi cřvb KivR| msL`vřZK DcvE mřMřKivř cwi msL`vb vře`MY KZK, řj v vřv`ř KivR Kři `vřKb| vřŸř cwi Kři bvi řŸřř cwi msL`vřbi KivR, řj v nj :

**Z` mřMř:** cwi msL`vřbi cřg Ges cřvb KivR nBřZřQ Z` mřMř| Bnv cř`vřK I gva`vřK Dřm ř`řK mřMpxZ nq| Z` mřaviYZ cřKvřKZ, AcřKvřKZ miKvřx, Avav miKvřx, řemiKvřx, AvřřvřZK cřřvř. Dřm ř`řK mřMpxZ nřZ cřři| cřqvrB Avbřvř AvbřÜvbKvřx ev MřelK `řs A`ev řj vřKvB vřřqřřMi gva`řg Z` mřMř KiřZ cřři| bgřv Rvřc, řigvřx, cř`vřK AvbřÜvb cřřvř. cřvřřZřZ Z` mřMř Kiv řřřZ cřři| řh řKvb Dřm ř`řKB Z` mřMpxZ řvřK bv řKb Dřřřk` řhb e`vřZ bv nq řmř`řK mřvřM `řv ivLřZ nře|

**Z` vřb`KiY:** mřMpxZ Z` mŸřřK vřv`ř cřvřřZř I Gř`i `evřřřři vřřřřZ vřb`ř (Organization) KiřZ nře| Z` vřb`KiřYi `evřřř, řj v mřaviYZ (K) řkřx, řj vři gřa` mřřřř cř`ř vřřř Kři, (L) mřRřeva`řřř mŸMřKi cřřvř GKKřK řKvb bv řKvb řkřxi Ařřřř Kři, (M) Dc`řcb I vřřřřřYi Rb` mřvřK Kři řřřř |

**Z` Dc`řcb:** Z` vřb`KiřYi ci cwi msL`vb mřřřřř Rvřj Zv `ř Kivi Rb` Z` řj vřřK Dc`řcb KiřZ nq| Z` řj vřřK OK, mřivřY, řj Lvřř, bKmv cřřvřzi mřvřřř Dc`řcb Kiv nq|

**Z` vřřK- IY:** Z` mřMř I Dc`řcbi ci vřřřřY Kiv nq| Z` mřMř Kivi ci vřřK- IřYi Rb` G, řj vřřK gřv I řkřx Avbřvřx Zvřj Kv ev mřivřYi mřvřřř Dc`řcb KiřZ nq| vřřřřřYi gva`řg Dc`řcb Z` vřřřřK AvřKZi A`řn Kři řřřř v nq|

**vřřK- vř Z` ř`řK vřvřřř MřY:** GřŸřř cwi msL`vb Dc`řcb Z` mŸř vřřřřY Kři cřř djvřři e`vřv cřvb Kři `vřK| řh řKvb vřvřřřř řcřřřřvři cře`vřAvb mřřř Dcvřř Z` mŸř vřřřřY Kři řh djvřř cvř qv řvř Zvř e`vřv cřvb AvřřK|

**řigvřx I bgřv Z` ř`řK řvřřř djvřřři Avbřv Kiv ev řvřř evřx Kiv:** řigvřx I bgřv Rvřřci gva`řg cřř Z` mŸřni gva`řg vřřř ev A`řvřzi eZřvb MřZ-cřKvř. mřřřř Rvřv řvřř| G mKj Zř`i vřřřřř řvřřřřzi MřZ-cřKvř, Dvřř mřřřvř cřřvř. mřřřřřřřřř e`ř Kiv mřř nq|





### **cv#VvEi gj`vqb: 4.1**

#### **A) eU vbePbx cKæ**

m#WK DËi vb`R gj-K A¶i#U#K eFv#Z Kiab | (D`vniY: Avcbvi vbe#PZ DËi#U 0K0 ntj G#K (K) eFv#Z Kiab)

- 1/ c#i msL`v#bi Z`\_ , tj vtK #Kfv#te Dc`vcb Ki v hvq?
  - K. bvb#ea msL`vi m#v#th`
  - L. bg#v R#i c I `igvixi m#v#th`
  - M. Av#U#v#Kvix ev M#el#Ki m#v#th`
  - N. QK, mvi#Y, tj L#P#T, bK#v c#F#Zi m#v#th` |
- 2/ Avi. G. vdmvi c#i msL`vb#K #K v#tm#te vetePbv K#i#Qb?
  - K. B#Kv#v#v#g#U#K#m v#tm#te
  - L. mvB#Kv#v#g#U#m v#tm#te
  - M. dij Z M#Y#Zi kvLv v#tm#te
  - N. dij Z c`v`#e`vi kvLv v#tm#te |
- 3/ c#i msL`v#bi c#Y#% msAv #K v`#q#Qb?
  - K. GBP. #mK#i 0
  - L. Avi. G. vdmvi
  - M. G. Gj. evD#j
  - N. I #qe0vi |

#### **Av) ms#¶B DËi cKæ**

- 1. #K#v k# t`#K Statistics k#i#U m#v n#q#Q?
- 2. GK ePv#\_#Ges eU ePv#\_#c#i msL`vb ej #Z #K tev#v#q?
- 3. GBP. #mK#i 0 c#i msL`v#bi th msAv c0#v K#i#Qb Zv v#j L#y |

#### **B) iPbv#j-K cKæ**

- 1. c#i msL`v#bi msAv I `evk0`vej xi veeiY v`b |
- 2. c#i msL`v#bi Kv#ej x Ges #K¶v c#i K#i#v#q B#vi c0#v#R#v#q#Zv m#u#K#Av#j vPbv Kiab |

**m#WK DËi:**

A) 1/ N    2/ M    3/ K

**cW 4.2**

**mn-m<sup>ა</sup>Ų (Correlation)**

**Dჭik**

GB cW tkჲI Avცბ-

- mn-m<sup>ა</sup>Ųi msÁv cŲvb KiჲZ cviჲeb;
- mn-m<sup>ა</sup>Ų weჲk- IჲYi cŲuqv m<sup>ა</sup>úჲK<sup>ე</sup>j ჲZ cviჲeb;
- mn-m<sup>ა</sup>Ųi tkYwefvRb I gvŲv m<sup>ა</sup>úჲK<sup>ე</sup>j ჲZ cviჲeb;
- weჲჲc wჲჲI i mnvჲh mn m<sup>ა</sup>Ų Dc-rcb KiჲZ cviჲeb/

**mn-m<sup>ა</sup>Ų**

ღ ev ZჲZwaK Pj K ev cwi eZჲKi (Variables) cvi Ųwi K m<sup>ა</sup>úჲK<sup>ე</sup> Dnvჲ i mn-m<sup>ა</sup>Ų (Correlation) etj | ჲu Pj ჲKi gჲa GKuLi gvb cwi eZჲbi mჲ½ mჲ½ Aci Pj K uLi I gvჲbi cwi eZჲbi ntj ej v hvq th, Pj K ჲYi cvi Ųwi K cwi eZჲbi gჲa GK uI thvMmŲ ev m<sup>ა</sup>Ų AvჲQ/ GK uI Pj ჲKi ewx i mჲ½ Aci Pj K uLi nvm A ev ewx NUჲZ cviჲi | mჲ½ vs ჲ ev ZჲZwaK Pj ჲKi GKB mჲ½ GK gლ ev weci xZ gლ cwi eZჲbi nI qvi m vavi Y cŲYZvჲK mn-m<sup>ა</sup>Ų ej v nq| mn-m<sup>ა</sup>ŲჲK AtჲჲK mჲჲkŲ ev mn-m<sup>ა</sup>Ų<sup>ე</sup> ev mnmskŲ etj vჲKb/

**mn-m<sup>ა</sup>Ų weჲk- IY cŲuqv**

tkvb Z mgMŲK ჲ ev ZჲZwaK Pj K we Ჲgvb vჲK/ wfbawfbaemgMŲK (Population) ntჲ msMჲxZ Zჲ i Pj K, tj vi gჲa mn-mgŲ cwi gvc Kiv m<sup>ა</sup>Ų bq/ GKB mgMŲK tჲჲK msMჲxZ m<sup>ა</sup>úჲK<sup>ე</sup> Pj ჲKi tj vi gჲa mn-m<sup>ა</sup>Ų cwi gvc KiჲZ nq| mn-m<sup>ა</sup>Ų weჲkŲ ჲYi gva Ჲg m<sup>ა</sup>úჲK<sup>ე</sup> Pj K, tj vi gჲa we Ჲgvb m<sup>ა</sup>ŲŲi gvŲv wbiacY Kiv hvq Ges ჲ ev ZჲZwaK Pj ჲKi gჲa mnMgჲbi cŲYZvI weჲkŲ Y (Analysis of Co-variation) Kiv hvq/

mn-m<sup>ა</sup>Ų weჲkŲ ჲYi cŲuqvჲK wZbuI avჲc eYŲv Kiv hvq/ thgb-

1. Pj Kmgჲni mn-m<sup>ა</sup>Ų wbiჲcY I cwi gvc Kiv,
2. Pj Kmgჲni mn-m<sup>ა</sup>ŲŲi gvŲv I h\_v\_Zv wbiჲcY Kiv Ges
3. Pj Kmgჲni GKB gლ ev weci xZ gლ cwi eZჲbi Kiv Rvi Y MZ m<sup>ა</sup>úჲK<sup>ე</sup> AvyŲvb Kiv/

**mn-m<sup>ა</sup>Ųi cŲviჲf**

bvbfvჲe mn-m<sup>ა</sup>ŲŲi tkYwefvM Kiv thჲZ cviჲi | iazჲcY<sup>ე</sup> mn-m<sup>ა</sup>ŲჲK m vavi YZ wbgჲ wLZ wZbuI tkYxჲZ weF<sup>3</sup> Kiv hvq/ thgb:

1. avZჲ I FbvZჲ mn-m<sup>ა</sup>Ų (Positive and Negative Correlation)
2. m vavi Y, AvsჲkK I eŲwea mn-m<sup>ა</sup>Ų (Simple, Partial, and Multiple Correlation)
3. i wLK I A%i wLK mn-m<sup>ა</sup>Ų (Linear and Non-linear Correlation) /

### abvZK mn-m<sup>o</sup>U

`\Pj tKi GKBgylx cwieZ<sup>o</sup> NUtj ZvtK abvZK mn-m<sup>o</sup>U ejv nq| A\_v<sup>o</sup> GKUW Pj tKi epxi cwi tci<sup>o</sup> Aci Pj KUW epxc<sup>o</sup> ntj A\_ev GKUW Pj tKi gvb n<sup>o</sup>mi `ia<sup>o</sup> Aci Pj KUWi gvb n<sup>o</sup>m tctj ZvtK abvZK mn-m<sup>o</sup>U ejv thtZ c<sup>o</sup>ti | thgb- uk<sup>o</sup>vi gvb epxi m<sup>o</sup>t\_ gvb<sup>o</sup> i Avtqi cwi gvY epxi c<sup>o</sup>Y ZvtK abvZK mn-m<sup>o</sup>U etj |

### FYvZK mn-m<sup>o</sup>U

`\Pj tKi gta<sup>o</sup> GKUWi gvb epx c<sup>o</sup>Bi dtj Ab<sup>o</sup>UWi gvb n<sup>o</sup>m tctj Dnv<sup>o</sup>tK FYvZK mn-m<sup>o</sup>U etj | A\_ev Pj K `y<sup>o</sup> GKUWi n<sup>o</sup>m ev epxi dtj Aciu<sup>o</sup>tZ mecixZgylx cwieZ<sup>o</sup> ntj Dnv<sup>o</sup>tK FYvZK mn-m<sup>o</sup>U etj | thgb- tKvb c<sup>o</sup>Y<sup>o</sup> mieiv<sup>o</sup>ni cwi gvY epx tctj H c<sup>o</sup>Y<sup>o</sup> i gj<sup>o</sup> Ktg hvq G<sup>o</sup>U n<sup>o</sup>Q FYvZK mn-m<sup>o</sup>U<sup>o</sup> D<sup>o</sup>vi nY|

### mn-m<sup>o</sup>U nxbZv

`\Pj tKi GKUWi gv<sup>o</sup>bi cwieZ<sup>o</sup>bi dtj Ab<sup>o</sup>UWi gv<sup>o</sup>tb h<sup>o</sup> tKvb ai<sup>o</sup>bi cwieZ<sup>o</sup> bv N<sup>o</sup>tU tm<sup>o</sup>t<sup>o</sup> g<sup>o</sup>tb Ki<sup>o</sup>tZ n<sup>o</sup>te th, Pj K `y<sup>o</sup> gta<sup>o</sup> tKvb mn-m<sup>o</sup>U tbB| thgb: e<sup>o</sup>pc<sup>o</sup>vtZi dtj gv<sup>o</sup>tQi Drcv<sup>o</sup> tb h<sup>o</sup> tKvb c<sup>o</sup>ve bv c<sup>o</sup>to Zvntj ZvtK mn-m<sup>o</sup>U nxbZv etj |

### mij mn-m<sup>o</sup>U

`\y<sup>o</sup>U m<sup>o</sup>uK<sup>o</sup> Pj tKi gta<sup>o</sup> c<sup>o</sup>Z<sup>o</sup> m<sup>o</sup>U<sup>o</sup>tK m<sup>o</sup>vaviY mn-m<sup>o</sup>U etj | GKRb uk<sup>o</sup>vi<sup>o</sup> cov-tkivbvq Aw<sup>o</sup>Z<sup>o</sup> mgq e<sup>o</sup>tqi m<sup>o</sup>t<sup>o</sup> Zvi b<sup>o</sup>st c<sup>o</sup>Bi m<sup>o</sup>U<sup>o</sup>tK m<sup>o</sup>vaviY mn-m<sup>o</sup>U ejv hvq|

### e<sup>o</sup>uea mn-m<sup>o</sup>U (Multiple Correlation)

mij mn-m<sup>o</sup>U ubifc<sup>o</sup>Yi t<sup>o</sup>g<sup>o</sup>tb Kiv nq th, GKUW Pj tKi gvb Aci GKUW Pj tKi gvb cwieZ<sup>o</sup>bi Dci ubf<sup>o</sup>pk<sup>o</sup>j \_vtK| uk<sup>o</sup>Š<sup>o</sup> A<sup>o</sup>tbK mgq G aviYv Kvh<sup>o</sup>Rix n<sup>o</sup>tZ t<sup>o</sup> Lv hvq bv| A<sup>o</sup>tbK mgq tKvb GKUW Pj tKi gvb Aci GKUW Pj tKi gvb <sup>o</sup>iviv c<sup>o</sup>veZ bv n<sup>o</sup>tq e<sup>o</sup> msL<sup>o</sup>K Pj tKi gvb <sup>o</sup>iviv c<sup>o</sup>veZ nq| G ai<sup>o</sup>bi cwi<sup>o</sup> w<sup>o</sup> Z<sup>o</sup>tZ mij mn-m<sup>o</sup>U Kvh<sup>o</sup>Rix nq bv| G<sup>o</sup>t<sup>o</sup>g<sup>o</sup> e<sup>o</sup>uea mn-m<sup>o</sup>U<sup>o</sup> e<sup>o</sup>envi Kivi c<sup>o</sup>q<sup>o</sup>vRb nq| AZGe tKvb Pj tKi gvb GKwaK Pj tKi gvb <sup>o</sup>iviv c<sup>o</sup>veZ ntj ZvtK e<sup>o</sup>uea mn-m<sup>o</sup>U etj |

### Avs<sup>o</sup>ikK mn-m<sup>o</sup>U (Partial Correlation)

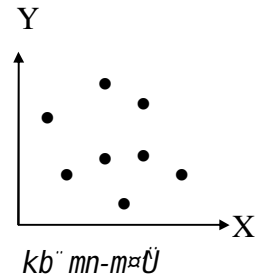
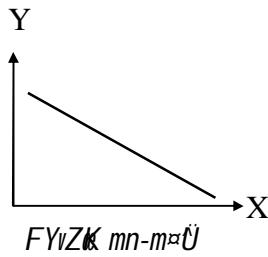
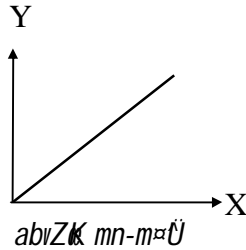
Avs<sup>o</sup>ikK mn-m<sup>o</sup>U we<sup>o</sup>tk- I<sup>o</sup>tY m<sup>o</sup>vaviYZ ubf<sup>o</sup>pk<sup>o</sup>j Pj K I c<sup>o</sup>Z<sup>o</sup>U `vaxb Pj tKi gta<sup>o</sup> th mn-m<sup>o</sup>U we<sup>o</sup> gvb Zv cwi gv<sup>o</sup>tci t<sup>o</sup>P<sup>o</sup>o<sup>o</sup> Kiv nq| Avs<sup>o</sup>ikK mn-m<sup>o</sup>U ubifc<sup>o</sup>Yi mgq `B<sup>o</sup>tqi Aw<sup>o</sup>aK Pj K \_vtK| we<sup>o</sup>tk<sup>o</sup> YKvtj `vaxb Pj K<sup>o</sup> t<sup>o</sup>vtK a<sup>o</sup>teK (Constant) m<sup>o</sup>nt<sup>o</sup>te aiv nq Ges Pj K<sup>o</sup> t<sup>o</sup>vi th tKvb `y<sup>o</sup> m<sup>o</sup>uK<sup>o</sup> Y<sup>o</sup>q Kiv nq|

### <sup>o</sup>i<sup>o</sup>uLK mn-m<sup>o</sup>U (Linear Correlation)

GKUW Pj tKi gv<sup>o</sup>bi cwieZ<sup>o</sup> Ab<sup>o</sup> GKUW Pj tKi m<sup>o</sup>t<sup>o</sup> h<sup>o</sup> Avbg<sup>o</sup>vmZK n<sup>o</sup>vi N<sup>o</sup>tU Zte Zvt<sup>o</sup> i gta<sup>o</sup> we<sup>o</sup> gvb mn-m<sup>o</sup>U<sup>o</sup>tK <sup>o</sup>i<sup>o</sup>uLK mn-m<sup>o</sup>U etj | thgb, x Pj tKi gvb 5, 10, 15, 20, 25 Ges Y Pj tKi gvb 3, 6, 9, 12, 15



metqic uPÎ cxiuziz`buu Aqj`vK| Zb#a" GKiu n`"Q x-Aqj Ges Aciuu n`"Q Y-Aqj| x AqjuuK GKiu Pjtki Zt`i Ges Y AqjuuK Ab` Pjkuu Zt`i cZxK untmte e`envi Kiv nq| x AqjtK`vaxb (Independent) Ges Y AqjtK x Atqji Dci ubfPkj (Dependent) PjK ejv nq| cZ`K Atqji cuigvc Z`" mui i ubgZg msL`v t`tk iia Kiv nq| Z`"mui i iukmgfni Ae`vb tj LuP`Dc`vcb Kti`vb`tjv uPiuZ Kiv nq| AZci PjK0tqi Z`" 0viv uPiuZ`vbmgn givgnS`vb`v`q GKiu mij tiLv tu`b t`lqv nq| PjK0tqi Z`" 0viv GtK t`lqv mij tiLv µgk evg n`Z Wvb u`tk DaYvngx n`j Zv`K avZ`K mn-m`0, Wvb t`tk evg u`tk DaYvngx n`j FYiZ`K mn-m`0 ejv nq| PjK`tjvi gvb 0viv Dc`vucZ`v`y`tjv uenqjB n`j Ges Gt`i MuZkxj Zvi gta` tKvb mvgAm`bv`vKtj PjK0tqi gta` mn-m`0 biv etj ati tblqv nq| ubtgauZbuu metqic-uP`i D`vni Y t`lqv nj :







### cvᄃVēi gj`iqb: 4.2

#### A) eū ıbePbx cĳæ

mıWK DĒi ıbt`R gj-K AᄃııUᄃK eĒııqZ Kiab | (D`vniY: Aıcbvi ıbePZ DĒiıU ŐKŐ ntj GᄃK (K) eĒııqZ Kiab)

- 1/ abvZKK mn-mᄃŬ ej v nq  
 K. `ıPj ᄃKi ıecıxZgıı cıı eZŬ NUᄃj  
 L. `ıPj ᄃKi GKııı gıᄃbi cıı eZŬ Ab`ııı gıᄃb ᄃKıv cıı eZŬ bv NUᄃj  
 M. GKıı Pj ᄃKi gıv eū msL`K Pj ᄃKi gıv Ővıv cĳııeZ ntj  
 N. `ıPj ᄃKi GKBgıı cıı eZŬ NUᄃj |
- 2/ GKıı Pj ᄃKi gıv eū msL`K Pj ᄃKi gıv Ővıv cĳııeZ ntj DnıᄃK  
 K. AıvııK mn-mᄃŬ etj  
 L. mıvıı Y mn-mᄃŬ etj  
 M. eūıea mn-mᄃŬ etj  
 N. mn-mᄃŬııxbZv etj |
- 3/ GKıı Pj ᄃKi gıᄃbi cıı eZŬ Ab` Pj ᄃKi mᄃ½ AıvıııZK nıᄃı NUᄃj DnıᄃK  
 K. A%ııLK mn-mᄃŬ etj  
 L. `ııLK mn-mᄃŬ etj  
 M. FYıZKK mn-mᄃŬ etj  
 N. ıetᄃc ıPĪ etj |
- 4/ mn-mᄃŬ ıetkᄃ ᄃıı cĳııqıᄃK Kqıı avᄃc eYŬv Kıv hıq?  
 K. ıZbıı  
 L. Pıııı  
 M. cıııı  
 N. mıZıı |

#### Aı) msıııB DĒi cĳæ

- 1. mn-mᄃŬ ıetkᄃ ᄃıı cĳııqıᄃK Kqıı avᄃc eYŬv Kıv hıq Ges ıK ıK ıı Lıı |
- 2. cYᄃıvZKK I cYᄃFYıZKK mn-mᄃŬıı msÁv ıı Lıı |
- 3. mn-mᄃŬᄃK th Kqıı ᄃkYᄃZ ıef<sup>3</sup> Kıv hıq Dnıᄃ`ı bvg ıı Lıı |

#### B) ıPıııj-K cĳæ

- 1. mn-mᄃŬıı msÁv I cĳıııᄃf` ıı Lıı | abıvZKK I FYıZKK mn-mᄃŬıı msÁv D`vni Ymn ıı Lıı |
- 2. mn-mᄃŬıı gıĪv ıK? ıetᄃc ıPĪıı mıvıᄃh` mn-mᄃŬ ıetkᄃ Y cıııZ e`ıv Kıab |
- 3. msÁv ıı Lıı:  
 mn-mᄃŬııxbZv, mıvıı Y mn-mᄃŬ, eūıea mn-mᄃŬ, AıvııK mn-mᄃŬ, `ııLK mn-mᄃŬ, A%ııLK mn-mᄃŬ |

mıWK DĒi: A) 1| N 2| M 3| L 4| K

**cW 4.3**

**mn-m<sup>2</sup>Ü mnM : wbY<sup>q</sup> c×wZmg<sup>r</sup>**

**D<sup>t</sup>i`k`**

GB cW t<sup>k</sup>! Avcib-

- mn-m<sup>2</sup>Ü mn<sup>t</sup>Mi ms<sup>Á</sup>v m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>AewZ n<sup>t</sup>Z cvi<sup>t</sup>eb;
- Kij<sup>®</sup>qcqvim<sup>t</sup>bi c×wZ tgvZvteK mn-m<sup>2</sup>Ü mnM wbY<sup>q</sup> Ki<sup>t</sup>Z cvi<sup>t</sup>eb;
- Aieb`-ÍZ\_` t<sup>-</sup>t<sup>k</sup> Kij<sup>®</sup>qcqvim<sup>t</sup>bi c×wZ Abgyqx mn-m<sup>2</sup>Ü mnM wbY<sup>q</sup>qi m<sup>-</sup> Rvb<sup>t</sup>Z cvi<sup>t</sup>eb;
- mn-m<sup>2</sup>Üi gv<sup>t</sup>v m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>ej<sup>t</sup>Z cvi<sup>t</sup>eb;
- w<sup>-</sup>úqvi<sup>t</sup>bi i`v¼ mn-m<sup>2</sup>Ü mn<sup>t</sup>Mi ms<sup>Á</sup>v, m<sup>-</sup> I wbY<sup>q</sup> c×wZ m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>ej<sup>t</sup>Z I wj L<sup>t</sup>Z cvi<sup>t</sup>eb|

**mn-m<sup>2</sup>Ü mnM\* (Coefficient of Correlation)**

mn-m<sup>2</sup>Ü wbY<sup>q</sup> Kivi weifbac×wZ i<sup>t</sup>q<sup>t</sup>Q| G cv<sup>t</sup>v K<sup>t</sup>qKwU c×wZ m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>Av<sup>t</sup>ij vPbv Kiv n<sup>t</sup>e| Z<sup>t</sup>e mev<sup>®</sup>MÜmn-m<sup>2</sup>Ü mn<sup>t</sup>Mi ms<sup>Á</sup>v cÜvb Kiv nj |

ev Z<sup>t</sup>Zv<sup>®</sup>ak Pj<sup>t</sup>Ki mn-m<sup>2</sup>Üi gv<sup>t</sup>v MvwYwZK cwigvc<sup>t</sup>K mn-m<sup>2</sup>Ü mnM etj | mn-m<sup>2</sup>Ü mnM r cÜvK wP<sup>t</sup>y<sup>i</sup> m<sup>v</sup>n<sup>v</sup>th` cÜvK Kiv nq| Gi m<sup>v</sup>n<sup>v</sup>th`` ÜW Pj<sup>t</sup>Ki mn-m<sup>2</sup>Üi gv<sup>t</sup>vMZ gvb wba<sup>t</sup>Y Kiv nq| G<sup>t</sup>Z ÜW Pj<sup>t</sup>Ki mn-m<sup>2</sup>Üi cÜwZ. I cwigvc m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>aviYv jvf Kiv hvq| ÜW m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>y Pj<sup>t</sup>Ki ga`Kvi m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>gv<sup>t</sup>v wbi<sup>t</sup>ct<sup>y</sup>i Rb` Kij<sup>®</sup>qcqvim<sup>t</sup>bi mn-m<sup>2</sup>Ü mn<sup>t</sup>Mi m<sup>-</sup>Ü nj :

$$r = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sqrt{\sum (x - \bar{x})^2 \sum (y - \bar{y})^2}}$$

- G<sup>t</sup>Z,  
 r = mn-m<sup>2</sup>Ü mnM  
 x = <sup>-</sup>vaxb Pj<sup>t</sup>Ki gv<sup>t</sup>bm<sup>g</sup>r  
 y = wbf<sup>t</sup>pkij Pj<sup>t</sup>Ki gv<sup>t</sup>bm<sup>g</sup>r  
<sup>-</sup>x = <sup>-</sup>vaxb Pj<sup>t</sup>Ki Mo  
<sup>-</sup>y = wbf<sup>t</sup>pkij Pj<sup>t</sup>Ki Mo  
 Σ = m<sup>g</sup>w<sup>o</sup>

mn-m<sup>2</sup>Ü mnM ÜW Pj<sup>t</sup>Ki mn-m<sup>2</sup>Üi cwigvY m<sup>2</sup>ú<sup>t</sup>K<sup>®</sup>Av<sup>t</sup>ijvKv<sup>t</sup>i MvwYwZKfv<sup>t</sup>e cÜvK K<sup>t</sup>i | GB cwigvc Z<sup>t</sup> ` e`eüZ GKK t<sup>-</sup>t<sup>k</sup> wbitc<sup>q</sup> <sup>-</sup>v<sup>t</sup>K| cwigvc<sup>t</sup>K GKK wbitc<sup>q</sup> Kivi dtj `ev Z<sup>t</sup>Zv<sup>®</sup>ak mn-m<sup>2</sup>Ü mn<sup>t</sup>Mi g<sup>t</sup>a` cvi <sup>-</sup>üw<sup>i</sup> K Z<sup>j</sup>vbv Kiv mnR nq| ÜW Pj<sup>t</sup>Ki

\* Correlation káw weifbac<sup>y</sup>ÜK weifb<sup>e</sup>te Ab<sup>y</sup>Z n<sup>t</sup>q<sup>t</sup>Q| t<sup>k</sup>ib t<sup>k</sup>ib c<sup>y</sup>l<sup>t</sup>K Bn<sup>o</sup>K mn-m<sup>2</sup>Ü A¼, t<sup>k</sup>ib c<sup>y</sup>l<sup>t</sup>K m<sup>2</sup>tk-l¼ m<sup>t</sup>te tj Lv n<sup>t</sup>q<sup>t</sup>Q| esjv weifbak<sup>á</sup> Üv<sup>v</sup> cÜ<sup>-</sup>wcZ n<sup>t</sup>j | Correlation Gi gj-<sup>v</sup>el<sup>q</sup>e<sup>-</sup>tZ t<sup>k</sup>ib `ecw<sup>i</sup>Z<sup>-</sup>tbB|

ḡ Ae GWKkb

mn-mḡ mnḡMi cḲxK BstīRx eYḡjv r Gi minvth cḲvk Kiv nq| BnvḡK Product Moment Co-efficient ejv nq| r Gi gvḡbi abvZḲ ev FYvZḲ ḡPy Pj KḲḡqi MvZKj Zvi ḡK ḡbt`R Kḡi | mn-mḡ mnḡMi gvḡ ḡḡU Pj ḡḡi gḡa` th mḡúKḡe`gvḡ Zvi cwi gvY ev gvḡv ḡbt`R Kḡi |

mḡúḡKḡ gvḡvi cwi gvḡYi Dci ḡbfḡ Kḡi mn-mḡ cḲI AvsḡK nḡZ cvḡi | ḡḡU Pj ḡḡi gḡa` hḡ mḡúYḡḡe mgvḡḡvZK MvZKj Zvi cwi j ḡḡZ nq Zḡe DnvḡK cḲḡ mn-mḡ ejv nq|

MvZKj Zvi mgvḡḡvZK Fvḡe GKBgḡx A\_ev ḡecixZḡḡx nḡZ cvḡi | ḡḡU Pj ḡḡi GKBgḡx mgvḡḡvZK MvZKj Zvi ḡ`Lv ḡḡḡ BnvḡK cḲḡabvZḲ mn-mḡ ejv nq| Gḡḡḡḡ r Gi gvḡ nḡe +1| Pj KḲḡqi mgvḡḡvZK cwi eZḡ ḡecixZḡḡx nḡj DnvḡK cḲḡFYvZḲ mn-mḡ etj | Gḡḡḡḡ r ev mn-mḡ mnḡMi gvḡ nq- 1| ḡḡU Pj ḡḡi gḡa`Kvi cwi eZḡ mḡúYḡḡe mgvḡḡvZK bv nḡj th mn-mḡ cvl qv hvq DnvḡK AvsḡK mn-mḡ etj | AvsḡK mn-mḡ Avevi abvZḲ Ges FYvZḲ nḡZ cvḡi | r Gi gvḡ hḡ kb` nq Zvḡḡ aḡi ḡbtZ nḡe th, Pj KḲḡqi gḡa` ḡKvb mn-mḡ ḡbB| ḡKḡḡv, mvgḡḡRK I A\_ḡḡvZK ḡḡḡḡ cḲḡabvZḲ ev cḲḡFYvZḲ mn-mḡ cvl qv ḡ`jḡ| GmKj ḡḡḡḡ AvsḡK AvsḡK chḡḡi mn-mḡ cvl qv hvq|

ḡbtP r Gi gvḡḡK GKḲv cwi gvḡc ḡ`Lvḡbv nj | cwi gvḡci cḲḡḡ cḲḡabvZḲ mn-mḡ, Zvici AvsḡK abvZḲ mn-mḡ Gi ci AvsḡK FYvZḲ mn-mḡ Ges meḡḡḡ cḲḡ FYvZḲ mn-mḡ Qḡḡi minvth` ḡ`Lvḡbv nj :

$$r = +1 \text{ cḲḡabvZḲ mn-mḡ}$$

$$\left. \begin{matrix} r = 0.9 \\ \text{ḡ} \text{ ḡḡ} \\ r = 0.1 \end{matrix} \right\} \text{ AvsḡK abvZḲ mn-mḡ}$$

$$r = 0 \text{ mn-mḡ bvB}$$

$$\left. \begin{matrix} r = -0.1 \\ \text{ḡ} \text{ ḡḡ} \\ r = -0.9 \end{matrix} \right\} \text{ AvsḡK FYvZḲ mn-mḡ}$$

$$r = -1 \text{ cḲḡFYvZḲ mn-mḡ}$$

r Gi gvḡ +1 Ges -1 Gi KvQvKḡḡ nḡj mn-mḡḡḡ gvḡv h\_vḡḡḡ AvsḡK abvZḲ I AvsḡK FYvZḲ nḡe| r Gi gvḡ 0 Gi KvQvKḡḡ nḡj Pj Kḡ, ḡjvi gvḡS AZ`šḡḡḡḡḡḡḡḡ mn-mḡ ḡḡḡḡ etj cḲḡxḡḡ nḡe| GQvov r Gi gvḡ 0.3 Ges 0.7 Gi gḡa` Ae`vb Kiḡ BnvḡK MḡYḡḡvM` gvḡvi mn-mḡ ejv ḡḡZ cvḡi |

GZḡḡY Avcbviv mn-mḡ mnM mḡúḡKḡḡ avi Yv ḡcḡḡ b Zv ḡbtḡeḡḡ E`D`vniḡYi gḡa`ḡ cwi ḡvi Kḡi ḡbb|

**D`vniY 1:** Kḡi Mḡx ḡKḡḡ I ḡbtḡḡḡ mḡúKḡḡḡ ḡbtḡeZ` cwi ḡeḡḡ nj -

Kwi Mix uk¶v ermi = X	1	2	3	4	5
wtqvRb c¶Bi cwi gvY = Y	3	7	10	12	18

Gt`i mn-m¶Ü mnM wbY¶ Kiab Ges Kwi Mix uk¶v I wtqv¶Mi gta` we`gub mn-m¶Ü m¶útk¶gšë` Kiab|

**mgvavb:** mn-m¶Ü mnM wbY¶-

x	y	$x - \bar{x}$	$y - \bar{y}$	$(x - \bar{x})^2$	$(y - \bar{y})^2$	$(x - \bar{x})(y - \bar{y})$
1	3	-2	-7	4	49	14
2	7	-1	-3	1	9	3
3	10	0	0	0	0	0
4	12	+1	+2	1	4	2
5	18	+2	+8	4	64	16
15	50			10	126	35

$$\bar{X} = \frac{\sum X}{n} = \frac{15}{5} = 3$$

$$\bar{Y} = \frac{\sum Y}{n} = \frac{50}{5} = 10$$

$$r = \frac{\sum (X - \bar{X})(Y - \bar{Y})}{\sqrt{\sum (X - \bar{X})^2 \sum (Y - \bar{Y})^2}}$$

$$r = \frac{35}{\sqrt{10 \times 126}} = \frac{35}{\sqrt{1260}} = \frac{35}{35.50} = 0.99$$

$$\therefore r = 0.99$$

A\_vr Kwi Mix uk¶v ep¶ I wtqv¶Mi gta` mn-m¶Ü mnM c¶q +1| c¶B Zt`i wfrEz GKRb uk¶v cwi Kí bwe` uk¶v cwi Kí bv c¶qbKvtj teKvi mgmvgy¶ mgvR MVtb h\_vh\_fvte Kwi Mix uk¶v c¶qvRbxqZv Dcj vä Kiab| Kwi Mix uk¶v Dbqtb c¶qvRbxq c`¶¶c Mh¶Yi Rb` wZvb uk¶v cwi Kí bvq mgvvi k tck Kiab|

**wtR Kiab:** wtgve`vPj i Ae GWzKkb tkYxi 5 Rb Ov/Ovxi cwi msL`vb I uk¶v gtbweAvtb c¶B b¶t t`lqv nj; mn-m¶Ü mnM wbY¶ Kiab| cwi msL`vb I uk¶v gtbweAvb wltqi gta` we`gub mn-m¶Ü m¶útk¶gšë` Kiab|

X = cwi msL`v¶b c¶B b¶t	47	35	17	24	47
Y = gtbweAvtb c¶B b¶t	40	25	35	38	42

$$D\hat{E}i: r = .9523$$

**mn-m¶Ü mnM wbY¶ veKí m¶**

q̄ Ae GWKkb

mn-m<sup>2</sup>Û mnM ïbYq̄i GKïJ m<sup>2</sup> m<sup>2</sup>ú<sup>2</sup>K<sup>2</sup>G chS<sup>2</sup> Aïcbvïv Rïbtj b| mn-m<sup>2</sup>Û mnM ïbYq̄i Rb<sup>2</sup> ïeK<sup>2</sup>í m<sup>2</sup> e<sup>2</sup>eüZ nq| Zb<sup>2</sup>a<sup>2</sup> Aïeb<sup>2</sup> "ÍZ<sup>2</sup>" (Ungrouped Data) ð\_†K Kïj<sup>2</sup> ïcqv<sup>2</sup>m<sup>2</sup>ïbi c<sup>2</sup>ïZ Abïy<sup>2</sup>vx mn-m<sup>2</sup>Û mnM ïbYq̄i ïeK<sup>2</sup>í m<sup>2</sup>ïW n<sup>2</sup> :

$$r = \frac{\sum dxdy - \frac{\sum dx \sum dy}{n}}{\sqrt{\left\{ \sum dx^2 - \frac{(\sum dx)^2}{n} \right\} \left\{ \sum dy^2 - \frac{(\sum dy)^2}{n} \right\}}}$$

GLv<sup>2</sup>tb,

$$r = mn-m^2\dot{U} mnM$$

$$\sum = mgwó$$

$$dx = X - A_x = X Pj \dagger Ki K\ddot{w}r Z Mo n\ddot{Z} X Pj \dagger Ki i \ddot{v}nkmg\ddot{t}ni \ddot{w}eP\ddot{z}iZ$$

$$dy = Y - A_y = Y Pj \dagger Ki K\ddot{w}r Z Mo n\ddot{Z} Y Pj \dagger Ki i \ddot{v}nkmg\ddot{t}ni \ddot{w}eP\ddot{z}iZ$$

$$n = th \dagger K\ddot{v}b GK\ddot{w}J Pj \dagger Ki tgvU i \ddot{v}nki msL \ddot{v}$$

$$A_x = X Pj \dagger Ki i \ddot{v}nkmg\ddot{t}ni K\ddot{w}r Z Mo$$

$$A_y = Y Pj \dagger Ki i \ddot{v}nkmg\ddot{t}ni K\ddot{w}r Z Mo$$

$$dx^2 = X Pj \dagger Ki K\ddot{w}r Z Mo n\ddot{Z} c\ddot{u}ZiU i \ddot{v}nki c\ddot{v} \ddot{K} \ddot{i} eM^{\circ}$$

$$dy^2 = Y Pj \dagger Ki K\ddot{w}r Z Mo n\ddot{Z} c\ddot{u}ZiU i \ddot{v}nki c\ddot{v} \ddot{K} \ddot{i} eM^{\circ}$$

**ïb†R Ki<sup>2</sup>ab:** ïbtg<sup>2</sup>ïe Z<sup>2</sup> n<sup>2</sup> Z mn-m<sup>2</sup>Û mnM ïbYq̄i Ki<sup>2</sup>ab

$\mu\ddot{w}gK \text{ bs}$	1	2	3	4	5
X:	2	2	4	5	6
Y:	5	3	2	6	7

(D<sup>2</sup>E<sup>2</sup>i: r = .58)

GZ<sup>2</sup>Ø<sup>2</sup>Z<sup>2</sup>xZ ïeb<sup>2</sup> "ÍZ<sup>2</sup>" (Ungrouped Data) ð\_†K mn-m<sup>2</sup>Û mnM ïbYq̄i Kïv th†Z cv†i | GRb<sup>2</sup> ïW Pj K ïeb<sup>2</sup> "ÍMYmsL<sup>2</sup> v ïb†tekb (Bivariate Frequency Distribution) ð\_†K mn-m<sup>2</sup>Û mnM ïbi<sup>2</sup>acY Kïv hvq|

**ï<sup>2</sup>úqvi<sup>2</sup>g<sup>2</sup>v†bi i<sup>2</sup>v¼ mn-m<sup>2</sup>Û mnM**

(Spearman's Rank Correlation Co-Efficient)

mn-m<sup>2</sup>Û mnM ïbYq̄i ïWZ<sup>2</sup>xq c<sup>2</sup>ïZ n†jv ï<sup>2</sup>úqvi<sup>2</sup>g<sup>2</sup>v†bi i<sup>2</sup>v¼ c<sup>2</sup>ïZ | Aa<sup>2</sup>v<sup>2</sup>cK Pj<sup>2</sup> ï<sup>2</sup>úqvi<sup>2</sup>g<sup>2</sup>v†bi G c<sup>2</sup>ïZïW c<sup>2</sup>Ûvb K†ib| ïcqv<sup>2</sup>i<sup>2</sup>m†bi mn-m<sup>2</sup>Û mnM ïbYq̄i ð††ï m<sup>2</sup>aviYZ m<sup>2</sup>úK<sup>2</sup>ïy<sup>2</sup> Pj K<sup>2</sup>†qi gvbmg<sup>2</sup>n e<sup>2</sup>eüZ nq| ïK<sup>2</sup>S<sup>2</sup> A†bK mgq Ggb c<sup>2</sup>ïi<sup>2</sup>ïZi D<sup>2</sup>m<sup>2</sup>e nq, thL<sup>2</sup>v†b Pj K<sup>2</sup>†qi gvbmg<sup>2</sup>n mi<sup>2</sup>v<sup>2</sup>m<sup>2</sup>ï ð<sup>2</sup>qv ïv†Kbv ev Pj K<sup>2</sup>†qi K m<sup>2</sup>y<sup>2</sup>ï<sup>2</sup> ð<sup>2</sup>msL<sup>2</sup>vZ<sup>2</sup>K c<sup>2</sup>ïi<sup>2</sup>g<sup>2</sup>v†c c<sup>2</sup>K<sup>2</sup>v<sup>2</sup>k Kïv hvq bv| G m<sup>2</sup>K<sup>2</sup>j ð††ï<sup>2</sup> ð<sup>2</sup>KYx ev c<sup>2</sup>ïw<sup>2</sup>3 Kïv m<sup>2</sup>ae n†j Pj K<sup>2</sup>†qi i<sup>2</sup>v¼ mn-m<sup>2</sup>Û

(Rank Correlation) e`envi Kiv mřavRbK| Ggb KZK,tjv mřgvRK, A\_řbWZK I vřřWZ Kvhřjvc iřtřQ th,tj vřZ i`vř mn-mřÜ mnM e`envi Kiv nř|

Z`mgnřK GmKj třřřř thvM`Zv, tgav, `řřZv cřřřZi vřřřřZ gřtbi řgvbřvřx 1,2,3,4 cřřřř. msL`vi mřvřřř i`vř cřvb Kiv nř| vřřřř `eřkó` I gřtbi vřřřřZ Pj Křq `řř Ae`vřb \_vřK| cieZřřZ i`vřřři řgvbřvřx `řř tkřx `Zvi Kiv nř| AZ:ci (Spearman's Rank Correlation Co-efficient) Gi cřřřK řřř p Gi mřřři mřvřřř i`vř mn-mřÜ mnM vřřř Kiv nř| mřřř nj :

$$\rho = 1 - \frac{6 \sum d^2}{N(N^2 - 1)}$$

GLvřb,

$$\rho = \text{řřř eYřřřř hř i`vř mn-mřÜ mřřři cřřřK}$$

$$d = R_1 - R_2 \text{ ev cřřř třřř i`vř Gi cřřř}$$

$$d^2 = \text{cřřř třřř i`vřřři cřřřři eM}$$

$$N = \text{MYmsL`v}$$

$$R_1 \text{ I } R_2 \text{ nj h\_řřřř cřřř I řřřř Pj řřř i`vř|}$$

D`vniY: 10 Rb Qřřřř cřřřmsL`vb I vřřřř cřřřřř vřřřř cřřřř břřř mřřřř i`vř cřvb Kiv nj :

cřřřmsL`vb- 6 4 7 5 8 9 3 10 9 2

vřřřř cřřřřř vřřřř- 5 3 8 6 9 10 4 7 7 1

Břřřř i gřřř mn-mřÜ mnM vřřřř Kiřř|

**mřřřřř:** i`vř cřřřřřř mn-mřÜ mnM vřřřř

cřřřmsL`vb I vřřřř cřřřřř vřřřř řřřřř i`vř cřvb Kiv nřřřř| Zřřř G třřřř i`vř cřřřř cřřřřř Kiřřř nřřř| GLvřb cřřřmsL`vbřřř R<sub>1</sub> Ges vřřřř cřřřřř vřřřř R<sub>2</sub> aiv nřřřř|

i`vřř			
cřřřmsL`vb	vřřřř cřřřřř vřřřř	d = R <sub>1</sub> -R <sub>2</sub>	d <sup>2</sup>
R <sub>1</sub>	R <sub>2</sub>		
6	5	1	1
4	3	1	1
7	8	-1	1
5	6	-1	1

ᄃ Ae GWKkb

i ᄃ¼			
cwi msL ᄃb	ᄃKᄃv cwi Kí bv	d = R <sub>1</sub> -R <sub>2</sub>	d <sup>2</sup>
8	9	-1	1
9	10	-1	1
3	4	-1	1
10	7	3	9
9	7	2	4
2	1	1	1
			Σd <sup>2</sup> = 21

$$m\hat{r}: \rho = 1 - \frac{6 \sum d^2}{N(N^2 - 1)}$$

Σd<sup>2</sup> = 21, N = 10 emtq cvl qv hvq

$$\rho = 1 - \frac{6 \times 21}{10(10^2 - 1)}$$

$$\text{ev, } \rho = 1 - \frac{126}{10 \times (100 - 1)}$$

$$\text{ev, } \rho = 1 - \frac{126}{10 \times 99}$$

$$\text{ev, } \rho = 1 - \frac{126}{990}$$

$$\text{ev, } \rho = 1 - 0.13$$

$$\text{ev, } \rho = 0.87$$

∴ ᄃbtYqᄃmn-mᄃÜ mnM = 0.87

### **i ᄃ¼ t` l qv bv ᄃKtj msL ᄃZK cwi gvtc i ᄃ¼ mn-mᄃÜi e`envi**

AᄃbK mgq Ggb aiᄃbi Pj K t`Lv hvq thLvᄃb Pj K mgᄃni i ᄃ¼ cᄃvb Kiv nq bv| G mKj tᄃᄃt`I i ᄃ¼ mn-mᄃÜ mnᄃMi mnvᄃᄃ` mn-mᄃÜ cwi gvtc Kiv hvq| GB ᄃbqtg Pj ᄃKi ᄃᄃmgᄃni gvᄃbvᄃyqx i ᄃ¼ cᄃvb Kiv ntq ᄃᄃK| GᄃZ mevᄃcᄃv eo ᄃᄃᄃK i ᄃ¼-1 t`qv nq| ᄃZxq epᄃg ᄃᄃᄃK i ᄃ¼-2 t`l qv nq Ges Gfvᄃe mKj ᄃᄃki i ᄃ¼ cᄃvb Kiv nq| Pj ᄃKi ᄃᄃ, tᄃᄃK Avj v`vfᄃe i ᄃ¼ ᄃᄃ tᄃ i ᄃ¼ mᄃÜ mnᄃMi mnvᄃᄃ` mn-mᄃÜ ᄃbYqᄃKiv nq|

D`vni Y: ᄃbtgᄃe ᄃᄃmgᄃ ntZ i ᄃ¼ c×ᄃZ cᄃᄃM Kᄃi mn-mᄃÜ mnM ᄃbYᄃ Ki ab|

X = 125, 130, 120, 124, 118, 128

Y = 120, 125, 115, 126, 125, 132

**mgvavb:** Gt`q`T Pj K0tqi i`mkmgfni i`v`4 c0vb Kiv nqub/ i`v`4 c`xwZ c0qvm Kivi Rb` i`mk` tjv`K gvtbi μgvbbyvqx c0tg i`v`4 c0vb Ki`Z nte/ wbtg0 Zvuj Kiv Zv t`Lv`bv ntjv/

X	Y	R <sub>1</sub>	R <sub>2</sub>	R <sub>1</sub> - R <sub>2</sub> = d	d <sup>2</sup>
125	120	3	5	-2	4
130	125	1	3.5	-2.5	6.25
120	115	5	6	-1	1
124	126	4	2	2	4
118	125	6	3.5	2.5	6.25
128	132	2	1	1	1
					22.50

**j`q` Kiab:** Y Gi i`v`4 wby0Kvtj t`Lv hv`Q th, 3 l 4 i`v`4i gvb GKB A`v` 125, ZvB GLv`b (3+4)/2=3.5 h`v`μtg ZZxq l PZZ`q`'v`4i gvb wntmte emte/

$$m\hat{r}: \rho = 1 - \frac{6 \sum d^2}{N(N^2 - 1)}$$

$\sum d^2 = 22.50$ ,  $N = 6$  emtg cvl qv hvq

$$\rho = 1 - \frac{6 \times 22.5}{6(6^2 - 1)}$$

$$\text{ev } \rho = 1 - \frac{135}{6 \times (36 - 1)}$$

$$\text{ev } \rho = 1 - \frac{135}{210}$$

$$\text{ev } \rho = 1 - 0.64$$

$$\text{ev } \rho = 0.36$$

$\therefore$  wbtY0 mn-m`U mnM = 0.36

**wb`R Kiab:** 5 Rb Qv`/Qv`xi w`q`v gtbme`Avb wltqi Dci cix`q`vq Af`šix`y l emivMZ cix`q`K wbgvj wLZ b`f w` tj b/ Zv` i μtg gvtbi mn-m`U mnM wby0 Kiab/

Af`šix`y cix`q`K	18	37	23	33	27	31
emivMZ cix`q`K	33	35	31	33	30	28

(D`Ei: r = 0.33)





**ცვლადი გეგმა: 4.3**

**A) ეუბეპხ ცხე**

მუშა DEი უბრე გეგმა A გეგმა ეფუძეს კიბა | (D`vniY: Avcbvi ბეპხ DEიუ OKO ntj GtK (K) ეფუძეს კიბა)

- 1) `ბუ Pj tKi mn-მუ მნამი ცხე Bstirx tKvb&eYgvj vi მინთ` ცხე Kiv nq?  
 K. X  
 L. Y  
 M. R  
 N. r
- 2) `ბუ Pj tKi ga`Kvi cwi eZB მუYvte mgvbvZK bv ntj DntK  
 K. ცხე-mn-მუ ej v nq  
 L. ავზე mn-მუ ej v nq  
 M. ავზე mn-მუ ej v nq  
 N. ფივზე mn-მუ ej v nq
- 3) Pj K0tqi msL`vZK cwi gvc Kiv მუე bv ntj Ges mvgvRK, A\_გვზე I უკვმზ KvhRj vci tqt  
 K. Kvj გეგმა mn-მუ მნამ უბე ცხე ე`ენი Kiv nq |  
 L. უ`უვი გეგმა i`v/4 mn-მუ მნამ უბე ცხე ე`ენი Kiv nq |  
 M. Av.G. დმთი i mn-მუ მნამ უბე ცხე ე`ენი Kiv nq |  
 N. GtWj გეგმა mn-მუ მნამ უბე ცხე ე`ენი Kiv nq |

**Av) მსაგებ DEი ცხე**

1. mn-მუ მნამი მსაგებ უი ლე |
2. ცხე ავზე I ცხე ფივზე mn-მუ მსაგებ D`vni Ymn უი ლე |
3. tKvb&Ae`vq Ges tKb უ`უვი გეგმა i`v/4 mn-მუ მნამ უბე ცხე ე`ენი Kiv nq უი ლე |

**B) იპვი-კ ცხე**

1. mn-მუ მნამი მსაგებ უი ლე | Kvj გეგმა mn-მუ მნამ უბე გეგმა მსაგებ უი ლე I ე`ლ`v კიბა |
2. i`v/4 ცხე ZtZ mn-მუ მნამ უბე გეგმა მსაგებ უი ლე | `ბე უკვკ QvT/QvT` i tgavvnti ბტე i`v/4 გვბ უ`tj b | i`v/4 ცხე ZtZ mn-მუ მნამ უბე კიბა |

QvT/QvTx	A	B	C	D	E	F	G	H	I	J
უკვკ-1	4	8	6	7	1	3	2	5	10	9
უკვკ-2	3	9	6	5	1	2	4	7	8	10

(DEი  $\rho = 0.88$ )

3.  $r = +1, r = 0, r = -1, ე`ლ`v კიბა |$   
 $\sum X = 1500, \sum X^2 = 22725, \sum Y = 9000, \sum Y^2 = 493600, \sum XY = 105225, n = 10, mn-მუ რე გეგმა უბე კიბა | (DEი  $r = -.000363865$ )$

მუშა DEი: A) 1 | N 2 | M 3 | L

**cW 4.4**

**ւԲՓԿ (Regression)**

**ԴիճԻ**

GB cW tk՛I AvcւԲ-

- ւԲՓԿի ms՛Av, mgxKiY, ւԲՓԿ tiLv, ւԲՓԿ ւԲԿ c×ւZ մասնակր՛ւԲժZ cvi՛teb|
- ւԲՓԿ ւԵւԲամԻ I Dnvi e`envti i c×ւZ մասնակր՛ւԲժZ cvi՛teb|
- ւԲՓԿի մն՛Mi մւնւթհ՛ մն-մասն ւԲԿի մԻ I c×ւZ մասնակր՛AeMZ n՛Z cvi՛teb|
- ւԿ՛ը cւի Kի brq մն-մասն I ւԲՓԿի c՛ղqvRbxqZv մասնակր՛eeZ Ki՛Z cvi՛teb|

**ւԲՓԿ**

մն-մասն մնM ւԲԿի գւա՛tg`Եւ Pj ՛Ki գ՛ա՛՛ cւի`ւի K մասնակր՛ի ՛ղ՛Q ւԿbv Zv ւԲԿ Kiv n՛ղ՛Q| cւի`ւի K մասնակր՛Ovovl մն-մասն մն՛Mi մւնւթհ՛ մասնակր՛ մնMgb, gv՛v ւԲԿ Kiv hvq| ւԿ՛ GKւ Pj ՛Ki MւZkxj Zvi dtj Ab` Pj KւUi th cւieZԹ մւաZ nq Zv մն-մասն մն՛Mi մւնւթհ՛ cւigvc Kiv hvq bv| ZvB GKւ Pj ՛Ki MւZkxj Zv ev cւieZԹի dtj Aci Pj ՛Ki th MւZkxj Zv ev cւieZԹ մւաZ nq Dnv ւԲԿի Rb՛B ւԲՓԿ c×ւZ c՛ղqm Kiv nq| cւimsl`vb ւԵւԲի th c×ւZi մւնւթհ՛`Եւ ci`ւի մասնակր՛ Pj ՛Ki GKւUi gv՛bi tKvb cւieZԹի dtj AciւUi Mo gvb cvl qv hvq Zv՛K ւԲՓԿ etj | VMj vm G. ւj Ս I ievU՛W. g`vmb Gi գ՛Z, 00Regression analysis is a technique for predicting or estimating the value of one variable called the dependent variable, based on the value of another variable, the independent variable.

**ւԲՓԿ mgxKiY I ւԲՓԿ tiLv**

ւԲՓԿ`Եւ ci`ւի ւԲՓԿ Pj ՛Ki մասնակր՛Կի t՛ղ՛I c՛ղqm Kiv nq| ւ՛Pj K Zt`i (Bivariate Data) Dci ւԲՓ Kի GB մասնակր՛mgxKi՛Yi գւա՛tg c՛կւ Kiv nq| th mgxKi՛Yi գւա՛tg cւի`ւի K GB մասնակր՛ev MւZkxj Zv c՛կւ Kiv nq Zv՛K ւԲՓԿ mgxKiY (Regression Equation) etj | ւԲՓԿ mgxKi՛Yi R`ւգւZK c՛ղv՛Yi մւնւթհ՛ th tj LւP՛I cvl qv hvq Zv՛K ւԲՓԿ tiLv (Regression Curve) etj | Pj K՛ղ՛qi մասնակր՛ c՛կւZ. Abyn՛ti ւԲՓԿ tiLv`՛թի n՛Z cvi՛| Zvntjv mij I eµ ւԲՓԿ tiLv| th ւԲՓԿ tiLvi Pj K՛ղ՛qi գ՛ա՛՛ mgvbvւZK մասնակր՛ւԵ`gvb Dn՛K mij`iւLK ւԲՓԿ (Linear Regression) tiLv etj Ges Pj K՛ղ՛qi մասնակր՛K mij`iւLK մասնակր՛etj | Pj K՛ղ՛qi գ՛ա՛՛ mgvbvւZK մասնակր՛v\_ւKtj Dn՛K eµ`iւLK ւԲՓԿ tiLv (Non-linear Regression) etj Ges Pj K՛ղ՛qi մասնակր՛K eµ`iւLK մասնակր՛etj |

### X Gi Dci Y Gi wbfPY mgiKiY wbyq

gw Pjtki gta th maku we`gvb itqto Zv wbfPY tiLvi mnrth` cKvk Kiv nq/ GKw Pjtki Mo gvbi wcxiz Aci Pjtki Mo gvb wbfPY tiLvi cok Kti/ maku gw PjKotk X I Y bvtg AwfinZ Kiv thiz cti| X ntjv Gtjt` faxb PjK Ges Y ntjv wbfPKj PjK| X-Gi Mo gvbi cwiezbi dtj Y-Gi Mo gvb cwiez nte| G aitbi cwiezbi dtj th wbfPY tiLvi cvlqv hrte DnvtK X Pjtki Dci Y Pjtki wbfPY tiLvi ev (Regression of y on x) ejv nq| X Pjtki Dci Y Pjtki wbfPY tiLvi wbtge mgikiYi mnrth` cKvk Kiv hvq|

$$Y = a_1 + b_1 X$$

GLvtb,  $Y = wbfPKj PjK$

$$X = faxb PjK$$

$b_1 = X-Gi Dci Y-Gi wbfPY mnM$  (Regression co-efficient of Y on X)

$a_1 = X-Gi gvb kb` ntj Y-Gi gvb|$

$a_1$  Ges  $b_1$  ntjv aek (Constant)

### wbfPY wbyq cxwz

wbfPY tiLvi wbyqi Rb` gw cxwz cqvM Kiv hvq| cxwz gw nj :

**(K) wctqc pT (Scatter Diagram):** gw Pjtki iwki,tjvi gta` cKZ.maku wbyqi Rb` wctqc pT cqvM Kiv nq| G cxwztz faxb PjKfz iwkmgti gvbtK OX Atq Ges wbfPKj PjKfz iwki,tjvi gvbtK OY Atq Dc`vcb Kitz nq| Gfvte PjKfz iwki gvbtK wv` t-j Ablyqx OK KvMtr Dc`vcb Kitz Ges hv` Dnv GKw mij tiLvi b`vq c\_ wbt`R Kti Zvtj estz nte th, PjKotqi gta` cy`maku we`gvb itqto| GB cxwztz GKw PjKfz iwki gvbi Rb` Aci PjKfz iwki gvbi gj`vqb Kiv mae nte| Dtj - L` th, A`wZK, ewwR`K I wkqv tjt` Ly KgB cy` maku`Lv hvq| chqetYi mnrth` GB pT w A/b Kitz nq ZvB Gw tek mZKZvi mt` A/b Kitz nq| wctqc pT A/tbi mgq wbtge wlv,tjvi cz j`q` ivltz nte|

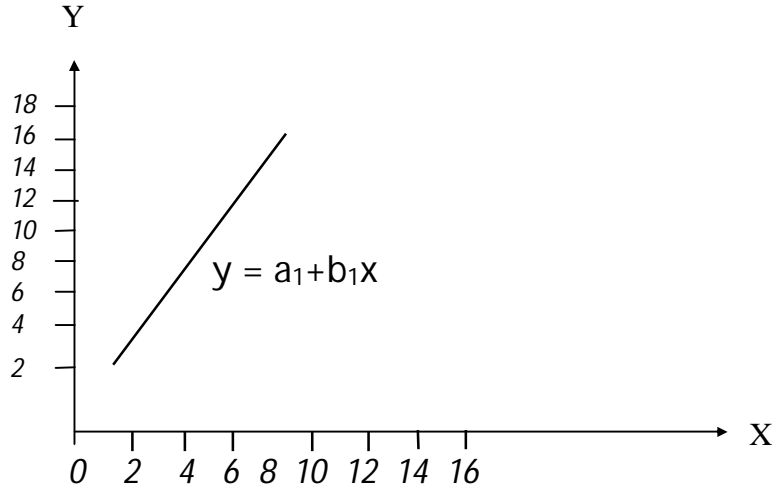
1. PjKfz iwki gvbyvqx OK KvMtr thme we`yemte mij tiLwv thb tmme we`y KvQvKwQ nq|
2. mgvb msL`K we`jk mij tiLvi Dfq cvtk`vLvi tpov Kitz nte|
3. mg`itzj thb mg msL`K we`yAe`vb Kti Zv tlqvj ivltz nte|

**D`niY:**

ıbtgıe Pj K0řqi mnvřh` ıbfřY ři Lv Askb Kiab|

X = 2, 4, 6, 8, 10

Y = 3, 10, 12, 16, 18



ıetřc ıPř cııZ AZ`řmnRřite c0řm Kiv hıq| GB ıbtgı cıı Kiv Zřite ři Lv Aıb Kiř tek mgtqi `iKiv nqbr| AbıřÁZvi dtj řiLvi MıZ ıewřbeıřc ıbtZ cřři| Zře AıřÁ eııı ıbfřřite Bıı Aıb Kiř cřři|

**Aıb:** OX Ařř X- Pj řKi Ges OY Ařř Y Pj řKi gıv, řjv Dc`řcb Kiv nřjv| X- Pj řKi gıřbi ıřıřZ Y Pj řKi gıv, řjv OK KıMřR Dc`řcb Křř Dıı GKıU c\_ ıbt`R Křř| Gıci Ggbřite GKıU gř n`řiLv UvbřZ nře thb Dıı ıe`yřřı ga`ıř řq Přř hıq| gř n`řiLv ř\_K ıe`yřřı c0ř mg` řZı Ae`řb Křř0| dtj řevřı hvř`Q th, Dııř`i gřa` mııK`ıe`gıv|

**(L) b`bZg eM`cııZ:** ıeL`vZ dıııx MıYZÁ Aıř`a ıj řR0vi (Adrien Marise Legendre) b`bZg eM`cııZi c0řR| mııK djıdj I MııYıZKřite cKıřki Rb`ıZııb G cııZııı c0řR Křřıb| b`bZg eM`cııZ cııımsL`řbMZ gřřřı (Model) ařeK0řqi gıv ıbYřqi mřevřKó.cřřı| GB cııZııı meRřııb M0řřııM`Zıı řřřı, G KřıřY ıewřbe D`niřY cııZııı e`enıı Kiv nře| b`bZg eM`cııZ e`enıı Křřı a1 I b1 Gı gıv ıbtřı mřřı mnvřh` řeı Kiv hıq|

$$b_1 = \frac{\sum XY - \frac{\sum X \sum Y}{n}}{\sum X^2 - \frac{(\sum X)^2}{n}}$$

Ges  $a_1 = \bar{Y} - b_1 \bar{x}$

GLıřb X = x Pj řKi gıřımgıř

ġe Ae GWKkb

$$Y = y \text{ Pj tKi gvb mgr}$$

$$\bar{X} = x \text{ Pj tKi Mo}$$

$$\bar{Y} = y \text{ Pj tKi Mo}$$

$$n = \text{MYmsL}^{\text{v/tgvU chfe}} \text{Y msL}^{\text{v/th tKvb GKwU Pj tKi tgvU i vk msL}^{\text{v}}$$

$$\Sigma = \text{mgwó}$$

X Gi Dci Y Gi ibfPY mnM (b<sub>1</sub>) ej tZ x Gi GK GKK cwieZbi Rb" Y Pj tKi th cwieZb mwaZ nq ZvtK eSvtbv nq/ Pj K` h w` wk qv X Ges mšlb msL<sup>v</sup> Y nq Zvtj b<sub>1</sub> 0v v wk qv epxi mvt\_ mšlb msL<sup>v</sup>q th cwieZb mwaZ nq Zv cKvk Kti |

**D`niY:**

ibtgawwY Z`mgfni Dci wfwE Kti fwe l`0vYx Kiab/ hw` GKRB 10 eQtii tj Lvcov mgvB Kti b Zvtj tm e`w<sup>3</sup> i m`te` mšlb msL<sup>v</sup> KZ ntZ cvti Zv ibifcy Kiab |

DĒi`vZv	mgvB wk qv eQi	mšlb msL <sup>v</sup>
K	9	4
L	12	3
M	5	5
N	6	5
O	2	6
P	14	2
Q	3	6

mgvab: GLvrb wk qv tK X Ges mšlb msL<sup>v</sup> tK Y 0v v cKvk Kiv ntjv | X Gi Dci Y Gi ibfPY ibYq Kivi Rb" wKQyc0qvRbxq gvb tei Kitz nte | GB gvb,tjv ntjv  $\Sigma X, \Sigma Y, \Sigma XY, \Sigma X^2$  | G j t q` ibtPi mvi wYU e`envi Kiv nj:

DĒi`vZv	wk qv eQi (X)	mšlb msL <sup>v</sup> (Y)	XY	X <sup>2</sup>
K	9	4	36	81
L	12	3	36	144
M	5	5	25	25
N	6	5	30	36
O	2	6	12	4
P	14	2	28	196
Q	3	6	18	9
	$\Sigma X = 51$	$\Sigma Y = 31$	$\Sigma XY = 185$	$\Sigma X^2 = 495$

ubfPY mgxKiY ntj v,  $Y = a_1 + b_1 X$

GLvfb,

$$b_1 = \frac{\sum XY - \frac{\sum X \sum Y}{n}}{\sum X^2 - \frac{(\sum X)^2}{n}}$$

$$= \frac{185 - \frac{51 \times 31}{7}}{495 - \frac{(51)^2}{7}}$$

$$= \frac{185 - 225.86}{495 - 371.57}$$

$$= \frac{-40.86}{123.43}$$

$$= -0.33$$

Avei,  $a_1 = \bar{Y} - b_1 \bar{X}$

GLvfb,  $\bar{X} = \frac{\sum X}{n} = \frac{51}{7} = 7.29$

$$\bar{Y} = \frac{\sum Y}{n} = \frac{31}{7} = 4.43$$

$$\therefore a_1 = 4.43 - (-0.33 \times 7.29)$$

$$= 4.43 + 2.41$$

$$= 6.84$$

AZGe cÜB gvbmgR-ewmtq ubtgu<sup>3</sup> mgxKi YwU cvl qv hvf"Q-

$$Y = 6.84 + (-0.33) X$$

$$Y = 6.84 - 0.33 X$$

10 eQi whrb tj Lcov mgvB Ki teb Zvi mšlb mSL`v nte

$$Y = 6.84 + (-0.33 \times 10), \text{ GLvfb } X = 10$$

$$= 6.84 - 3.30$$

$$= 3.54$$

AZGe mgvB ukŕlv eQtii cwi gvŕYi mŕt\_ mšlb mSL`vi ubfPY j ŕŕYxq| mgvB ukŕlv eQtii cwi gvŕY teuk ntj gvbtŕ i gvŕS cwi evi mgvR cfwZ. m=úŕK@mŕPZbZv ewx cvq| Bnvi cwi tçŕŕŕŕZ gvby cwi evi tK`~Qj I tQvU ivLŕZ Pwq| ZvB t`Lv hvq mgvB ukŕlv eQtii cwi gvŕY ewx i mŕt\_ mšlb mSL`v KgŕQ|

### Bestimmung des Regressionskoeffizienten $b_1$

Die Gerade  $Y = b_1 X + a_1$  ist die beste Approximation der Datenpunkte  $(x_i, y_i)$ .

$$b_1 = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2}$$

Die Formel für  $b_1$  kann auch als  $b_1 = \frac{\sum xy - \frac{(\sum x)(\sum y)}{n}}{\sum x^2 - \frac{(\sum x)^2}{n}}$  geschrieben werden.

Bestimmung des Regressionskoeffizienten  $b_1$ :

$$b_1 = \frac{\sum dx dy - \frac{\sum dx \sum dy}{n}}{\sum dx^2 - \frac{(\sum dx)^2}{n}}$$

Wobei

$$dx = X - \bar{X} \text{ (Abweichung von } \bar{X} \text{)}$$

$$dy = Y - \bar{Y} \text{ (Abweichung von } \bar{Y} \text{)}$$

$$X = \text{unabhängige Variable}$$

$$Y = \text{abhängige Variable}$$

$$\bar{X} = \text{Mittelwert von } X$$

$$\bar{Y} = \text{Mittelwert von } Y$$

$$a_1 = \bar{Y} - b_1 \bar{X}, \bar{X} = A_x + \frac{\sum dx}{n}, \bar{Y} = A_y + \frac{\sum dy}{n}$$

### Bestimmung des Regressionskoeffizienten $b_2$

Die Gerade  $X = b_2 Y + a_2$  ist die beste Approximation der Datenpunkte  $(x_i, y_i)$ .

$$X = a_2 + b_2 Y$$

$$\text{Wobei } Y = \text{unabhängige Variable}$$

$$X = \text{abhängige Variable}$$

$$b_2 = \frac{\sum Y X - \frac{(\sum Y)(\sum X)}{n}}{\sum Y^2 - \frac{(\sum Y)^2}{n}}$$

$$a_2 = \bar{X} - b_2 \bar{Y}$$

$$a_2 \text{ ist } b_2 \text{ nicht abhängig (Constant)}$$

Bestimmung des Regressionskoeffizienten  $b_2$  (Least Squares Methods)  $a_2$  ist  $b_2$  nicht abhängig von  $b_1$ .

$$b_2 = \frac{\sum XY - \frac{\sum X \sum Y}{n}}{\sum Y^2 - \frac{(\sum Y)^2}{n}}$$

weKí c×wZi GB mFwU msuqjBvKvúti nj

$$b_2 = \frac{\sum dx dy - \frac{\sum dx \sum dy}{n}}{\sum dy^2 - \frac{(\sum dy)^2}{n}}$$

GLvúb  $d_x = X - P_j$  tKi Kúí Z Mo ntZ cúZwU i wki  $c_{v\_R} A_{-} X - A_x = d_x$

$d_y = Y - P_j$  tKi Kúí Z Mo ntZ cúZwU i wki  $c_{v\_R} A_{-} Y - A_y = d_y$

$X =$  wbfPkvj  $P_j$  tKi gv

$Y =$  vaxb  $P_j$  tKi gv

$A_x = \bar{x} - Z_{mwi}$  i Kúí Z Mo

$A_y = \bar{y} - Z_{mwi}$  i Kúí Z Mo

$b_2 = Y - vaxb P_j$  tKi Dci wbfPkvj  $X - P_j$  tKi wbfPY mnM

$$a_2 = \bar{X} - b_2 \bar{Y}$$

$$\bar{X} = A_x + \frac{\sum dx}{n}$$

$$\bar{Y} = A_y + \frac{\sum dy}{n}$$

**wbfPY mnúMi mnvúth` mn-mú mnM wbyq**

wbfPY mnM vúli gv e`envi Kúti mn-mú mnM wbyq Kiv hvq| wbfPY mnM Ges mn-mú mnúMi gta` th m`úK`e` gv Zv wbtgú m`ú i mnvúth` cKvk Kiv nj -

$$r = \sqrt{b_1 \times b_2}$$

$A_{-} x$  Gi Dci y Gi wbfPY mnM Ges y Gi Dci x Gi wbfPY mnúMi , Ydtj i eMúj- tei Kij B mn-mú mnM cvl qv hvte|

**D`vniY:**

wbtgú Dci v` , tj v` t`\_tK wbfPY mnúMi mnvúth` mn-mú mnM wbyq Ki ab-

X	=	4	6	8	9	13	14	16
Y	=	16	18	17	20	22	23	25

**mgvaub:**

Zvuj Kv

X	y	X-A <sub>x</sub> =dx	Y-A <sub>y</sub> =dy	dx dy	dx <sup>2</sup>	dy <sup>2</sup>
4	16	-5	-4	20	25	16
6	18	-3	-2	6	9	4
8	17	-1	-3	3	1	9
9	20	0	0	0	0	0
13	22	4	2	8	16	4
14	23	5	3	15	25	9
16	25	7	5	35	49	25
mgwó		7	1	87	125	67



∑ Ae GWKkb

**mT:**

$$r = \sqrt{b_1 \times b_2}$$

cŭtg b<sub>1</sub> | b<sub>2</sub> Gi gvb tei KitZ nte |

$$b_1 = \frac{\sum dx dy - \frac{\sum dx \sum dy}{n}}{\sum dx^2 - \frac{(\sum dx)^2}{n}}$$

Zwij Kvbvqx t`Lv hvq th, A<sub>x</sub>= 9, A<sub>y</sub>= 20, n = 7

$$b_1 = \frac{87 - \frac{7 \times 1}{7}}{125 - \frac{(7)^2}{7}}$$

$$= \frac{87 - 1}{125 - 7}$$

$$= \frac{86}{118}$$

$$= 0.73$$

Ave i

$$b_2 = \frac{\sum dx dy - \frac{\sum dx \sum dy}{n}}{\sum dy^2 - \frac{(\sum dy)^2}{n}}$$

$$= \frac{87 - \frac{7 \times 1}{7}}{67 - \frac{(1)^2}{7}}$$

$$= \frac{87 - 1}{67 - 0.14}$$

$$= \frac{86}{66.86}$$

$$= 1.29$$

$$\therefore b_2 = 1.29$$

$$\therefore r = \sqrt{b_1 \times b_2} = \sqrt{0.73 \times 1.29}$$

$$= \sqrt{0.94} = 0.97$$

mZi vs mn-m=Ū mnM ntj v = 0.97

**ibR Kiab:**

$$\begin{aligned}
 h\ddot{w} \sum dx = 95, \quad \sum dy = 111, \quad \sum dx^2 = 1355, \quad \sum dy^2 = 1779 \text{ Ges} \\
 \sum dxdy = 1525 \text{ nq Zvntj } b_2 \text{ Gi gvb } \text{ibYq Kiab} / r \text{ Gi gvb } \text{ibYq Kiab} /
 \end{aligned}$$

**ukv cwi Kibiq mn-mafÜi e`envi**

ukv cwi Kibv c`qtb mn-mafÜi e`vck e`envi itqtQ | `B ev ZtZmaK Pjtki th tKvb cwieZB, cwieZbi thvMmT ubiacy Ges Bnvi abvZK ev FYvZK cwi gvb I cKwZ. m`ufKmn-mafÜi mrvth` Rvbr hvq | GtZ GKwU Pjtki gvtbi ZviZg` Aci Pjtki gvtbi m`te` cwieZb m`ufKcwi Kibme`t`i AeinZ Kti \_vtK | dtj Gi mrvth` ukv cwi Kibv c`qtbKvix e`ir<sup>3</sup>eM`bvbmea ceffvm, vbfjZv c`fuz. vetkY Kti mivK vvxvšl Mh`Y mtpó nb |

**ukv cwi Kibiq vbfYi e`envi**

m`uKv GKmaK Pjtki GKwU Dci AcivUv vbfPkjZv vbfPb vetkYi gva`tg Rvbr hvq | Gi gj- D`ik` ntvj GKwU Pjtki gvtbi cwieZbi dtj Aci Pjtki th Mo cwieZB nq Zv vbfY Kiv | Gi mrvth` ukv cwi Kibme`MY bvbmea AvyÜvb Kv` cwi Pj bv Kti \_vtKb | ukv vbi vbi`ó nvi ARbi Rb` uK cwi gvb A`qpb KitZ nte, A`vzi mvgwMk Dbqbi Rb` tKvb ch`qi ukv vK Ges KZUKz, iaz; v`tZ nte cwi Kibme`MY Zv vbfY Ktib | GZ`ZvZ mvgwMk A`vzi vbi` tKvb LvZtK Dbz Kivi Rb` tKvb ukv vK KZUKz, iaz; v`tZ nte Zv vbfY Ktib | gvb`i Avtqi m` ukv ARbi c`YZvi nvm evxi cwi gvY vbfY Ktib | Gfvte vbfPbi vetkY ukv cwi Kibv GK Aciv vvh`Dcv`vb vntmte c`ZwZ nqtQ |



**B) iPbvj-K cĭæ**

1.  $\text{wbf}^{\text{P}}\text{Yi ms}\hat{\text{A}}\text{v ij Lj} \mid \text{X Gi Dci Y Gi wbf}^{\text{P}}\text{Y wY}^{\text{P}}\text{qi mgxKi Yiu ij Lj} \mid$   
 $\text{e}^{\text{v}}\text{L}^{\text{v}} \text{Ki}\hat{\text{a}}\text{b} \mid \text{wbf}^{\text{P}}\text{Y tiLv} \text{wKfi}\hat{\text{t}}\text{e A}\frac{1}{4}\text{b Kiv hvq ij Lj} \mid$
2.  $\text{b}^{\text{b}}\text{Zg eM}^{\text{c}}\times\text{wZ m}\hat{\text{u}}\text{tK}^{\text{c}}\text{ij Lj} \mid \text{`w} \text{Pj}\hat{\text{t}}\text{Ki Z}_- \text{'' wbtg}\hat{\text{e}}\text{t}^{\text{t}} \text{Iqv n}\hat{\text{t}}\text{jv} \mid \text{wbf}^{\text{P}}\text{Y}$   
 $\text{mgxKi Y ij Lj} \mid$

X	1	2	3	4	5	6	7	8
Y	6	1	0	0	1	2	1	5

(DĖi Y = 2)

3.  $\text{wbf}^{\text{P}}\text{Y mn}\hat{\text{t}}\text{Mi} \text{weK}\hat{\text{i}} \text{m}\hat{\text{F}}\text{w} \text{wK?Y Gi Dci X Gi wbf}^{\text{P}}\text{Y wY}^{\text{P}}\text{qi mgxKi Yiu ij Lj}$   
 $\text{I e}^{\text{v}}\text{L}^{\text{v}} \text{Ki}\hat{\text{a}}\text{b} \mid$

**m/wK DĖi:**

A) 1 | N 2 | M 3 | L

**cW 4.5**

**bglyqb I bgly Rii c**

**Dᚦi k**

GB cᚦV Avcib-

- bglyqᚦbi msÁv I weifbæbglyqb c×wZ eYᚦv KiᚦZ criᚦeb;
- bglyR wePziz, AbglyR wePziz, bglyqᚦbi myear I mxgve×Zv wK Zv DᚦjL KiᚦZ criᚦeb;
- bgly Rii ᚦci weifbæchᚦeᚦ mæúᚦKᚰej ᚦZ criᚦeb;
- wKᚦᚦv cwi Kiᚦvq bglyqb I bgly Rii ᚦci cᚰqurbxqZvi weei Y wᚦᚦZ criᚦeb/

**bglyqb**

bglyqb nᚦjv GKiu cwi msLᚦwibK c×wZ hvi mrvᚦᚦᚦ mgMᚰKi GKiu Ask ev bglyr wbeᚦᚦb Kiv nq Ges H Astki Zᚦ msMᚰ, cixᚦᚦv I weᚦkd Y Kᚦi mgMᚰKi MwZ, cKwZ, ᚦeikóᚦ mæᚦÚ hvᚦm½Z w×vší MᚰY Kiv nq| bglyqbᚦK fij fᚦte eᚦᚦZ nᚦj bglyqᚦbi mᚦᚦ mæúᚦKᚰ KᚦqKiu wel q mæúᚦKᚰRivb cᚰqurB|

**bglyr:** Bnv mgMᚰKi GKiu cᚰZwbaZᚦxj ev ᚦeikóᚦ mæᚦᚰj Z ᚦᚦᚦᚦ Ask hv AbyrÚvᚦb ev weᚦk- IᚦYi Rbᚦ wbeᚦᚦb Kiv nq|

**mgMᚰK:** mgMᚰK nj GKB aiᚦbi ᚦeikóᚦ cYᚰAᚦbKᚰ ᚦjv Dcivᚦᚦbi mgwᚦ hv ᚦᚦᚦK bglyr wbeᚦᚦb Kiv nq| thgb- wKᚦᚦv\_xᚦᚦ msLᚦv, wKᚦᚦᚦKi msLᚦv BZᚦwᚦ |

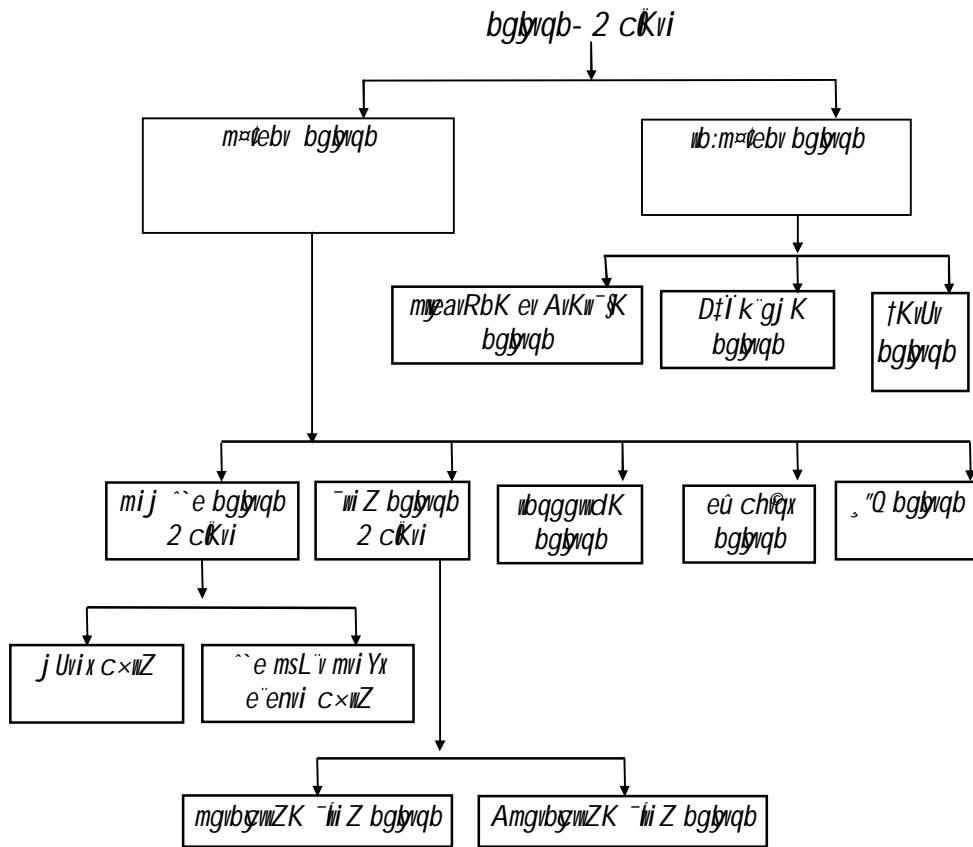
**mmxg mgMᚰK:** th mgMᚰK eᚦwᚦ, eᚦᚦ cᚦwZi msLᚦv mᚦᚦwᚦᚦ ᚦᚦᚦK ZᚦᚦK mmxg mgMᚰK etj | thgb Dᚰgᚦwekᚦeᚦᚦ vjᚦqi 2000 mᚦᚦj i Gg GW cwi ᚦᚦᚦv\_xᚦᚦ msLᚦv, Av`gRx Ry wᚦᚦj i kᚦᚦK msLᚦv cᚦwZ.|

**Amxg mgMᚰK:** th mgMᚰKi ᚦᚦᚦᚦ eᚦᚦ ev iviki msLᚦv AmsLᚦ, AÁvZ I AwbiæᚦᚦYq ZᚦᚦK Amxg mgMᚰK etj |

**bglyvi AvKvi:** ᚦKiv bglyq th mKj GKK wbeᚦᚦb Kiv nq tm mKj GKᚦKi mgwᚦᚦK bglyvi AvKvi etj | bglyvi GKᚦKi cwi gvY 30 ev Zvi ᚦᚦᚦK Kg nᚦj DnivᚦK ᚦᚦᚦKwZ. bglyv Ges 30 Gi teik nᚦj DnivᚦK ep`vKvi bglyv etj |

**bglyqb c×wZ**

mᚦaviYZ Zᚦᚦi cKwZ, AbyrÚvᚦbi aib cᚦwZi Dci wᚦᚦᚦ Kᚦi bglyqb c×wZ wbaᚦᚦY Kiv nq| Zᚦe mKj ᚦᚦᚦᚦB bglyqb thb mgMᚰKi cᚰZwbaZᚦxj I ᚦeikóᚦ mæúᚦbæᚦᚦ tm wᚦᚦK j ᚦᚦᚦ ivLᚦZ nᚦe| bglyqᚦbi c×wZᚦ ᚦj ᚦᚦK wᚦᚦᚦi QᚦKi mrvᚦᚦᚦᚦ ᚦᚦᚦᚦv nj :



GQivovl Avštc`ek bglyqb, t\_vK bglyqb, tiLv bglyqb, chiqmugK bglyqb (Sequential Sampling) itqtQ|

bglyqtb i KtqKwU c`wZ m`utK`btg`Avtj vPbv Kiv nj :

**m`tebr bglyqb:** GB c`wZtZ m`tebr ZtEji (Theory of Probability) w`wE`Z bgly ubePp Kiv nq| Gt`q`T mgM`Ki c`Z`KwU GKtKi bglyv wntmte ubePZ nI qvi mgvb m`tebr v`tK| m`tebr bglyqb c`wZ, tj v nj :

**mij`e bglyqb:** mij`e bglyqb Aw`K cwiwPZ I euj e`euZ c`wZ| m`tebr ZtEji e`envtii dtj G c`wZtZ mKj GKtKi ubePZ nI qvq mgvb m`tebr itqtQ| G c`wZtZ bglyqtb e`w`MZ c`q`c`wZtZji m`tebr v`tKbv Ges ubePp nq w`Avb m`Zfvte| mij`e bglyqb j Uvix c`wZ Ges i`vUg br`vi tUej c`wZtZ (Random number table method) m`ubaKiv hvq|

**li Z bglyqb:** li Z bglyqtb mgM`KtK KZK,tjv fvM er`ti w`f` Kiv nq| w`w`be`ti w`f` Kivi Rb` KZK,tjv `enkó` ubaP`Y Kiv nq Ges GmKj`enkó`i w`wE`Z`li w`b`vm Kiv nq| th w`l`tq MtelYv er AbjUv`v cwiwPw`Z nq tmLub t`tKB`li w`b`vtmi w`b`Rvejx er m`tKZ j v`f` Kiv hvq|`li w`b`vtmi w`b`Rvejx Abjvqx m`tebr w`b`P` ev`ePw`Z c`q`qvri gva`tg c`ZwU`li t`tK c`q`qvRbxq mSL`K bglyv ubePp Kiv nq| bglyv ubeP`bi GB c`wZtK GKw`Zfvte`li Z bglyqb etj|`li Z bglyqb m`vaviYZ m`gvw`RK, A`w`w`ZK, t`f`š`Mw`j K c`f`wZ. Ae`vi cwi`c`q`q`Z ubaP`b Kiv nq|`li Z

bgvrb ᄡvite m=ubekiv hvq| thgb- mgvbgvZK I AmgvbgvZK ᄡli Z bgvrb| tKvb mgM0Ki c0Zu ᄡli ev Dc ᄡii AvqZtbi AbgvZ hw bgvrb bePb Kiv nq Zte ZvK ᄡli Z bgvrb etj | Acictᄡ tKvb mgM0Ki wefb0 ᄡli ev Dc ᄡii bgvrb AvqZtbi AbgvZ bePb Kiv bv ntj ZvK AmgvbgvZK ᄡli Z bgvrb etj | AmgvbgvZK ᄡli Z bgvrb tKvb ᄡli ev Dc ᄡii Avak c0ZubvZj\_vK Ges Ab ᄡli ev Dc ᄡii ᄡ c0ZubvZj\_vK/mvKZv I c0ZubvZkxj Zvi tᄡtᄡ mgvbgvZK ᄡli Z bgvrb , iazcyᄡ ᄡli Z bgvrb mgq, eᄡ I bePbKxj Zvi gvcKvWZ mij ᄡePqZ bgvrbZi Zjvrb Avak mjevRbK| AbvUvb cvi Pij bv I Z\_ msM0ni tᄡtᄡ ᄡli Z bgvrb AvakZi mjevRbK|

**ibqg gwdK bgvrb** (Systematic Random Sampling): ibqggwdK bgvrb c0ZtZ cᄡtg mgM0Ki Ašfᄡ c0Zu bgvrb GKKtK GKU ubv 0 muqK msLᄡ ᄡvib ᄡPvZ KiZ nq| mgM0tK ᄡPvZ Kivi wfvE wtmte tššMvuj K GjvKv Abjvqx ᄡᄡv, ᄡᄡvi ᄡli, ᄡj 1/2 tftᄡ ᄡᄡv cᄡvZ. euk0tK eᄡvni Kiv hvq| mgM0Ki AvKvii Dci wfvEKti bgvrb AvKvi bafY Kiv nq| AZci bgvrb AvKvi ᄡvib mgM0tK fvm Kti bgvrb eᄡvB bafY Kiv nq| bgvrb eᄡvB tᄡK ᄡePq c0ZtZ GKU bgvrb GKK bePb Kiv nq| bePZ bgvrb mᄡ\_ bgvrb eᄡvB thvM Kti WZxq bgvrb bePb Kiv nq| AZci WZxq bgvrb mᄡ\_ bgvrb eᄡvB thvM Kti ZZxq bgvrb bePb Kiv nq| Gvite mKj bgvrb bePb m=ubekiv nq| gtb Kiab GKU mgM0K 40U GKK itqtQ| GLvb tᄡK 5 GKK weuk0 GKU bgvrb bePb KiZ nte| AZGe bgvrb eᄡvB nte 40÷5=8| GLvb 1 tᄡK 8 bs GKtKi gtaᄡ tᄡK ᄡePqZvite cᄡg bgvrb GKUli bePb KiZ nte| gtb Kiab ᄡePqZ bgvrb muqK bs ntjv 7| WZxq bgvrb nte cᄡg bgvrb muqK bs+bgvrb eᄡvB, A\_ᄡ WZxq bgvrb = 7+8=15 bs GKK| GKBvite ZZxq bgvrb nte 15+8=23 bs GKK| Gvite ibqggwdK c0ZtZ mnR I mij vite bgvrb Kiv nq|

**eᄡ chᄡq bgvrb**: th bgvrb GKvAK chᄡq tᄡK bgvrb bePb Kiv nq DvK eᄡ chᄡq bgvrb etj | eᄡ chᄡq bgvrb c0ZtZ mgM0tK KtqKU bgvrb GKtK wef3 Kiv nq| GB bgvrb GKK, tjvK cᄡugK bgvrb GKK ejv nq| AZci c0Zu cᄡugK bgvrb GKKtK KZK, tjv ᄡᄡᄡ ᄡᄡᄡ bgvrb GKtK wef3 Kiv nq Ges GB ᄡᄡᄡ ᄡᄡᄡ bgvrb GKK, tjvK WZxq bgvrb GKK ejv nq| Gvite ZZxq, PZᄡ, cĀg cᄡvZ. bgvrb GKK cvlqv hvq| mKj chᄡqi bgvrb GKK tᄡK ᄡePq c0Zi gvaᄡg bgvrb bePb Kiv nq| mgM0Ki AvqZb Ly eo ntj G aitbi bgvrb c0Z eᄡvni Kiv nq| \_vbv, BDvbq, M0g, cvov cᄡvZ. chᄡq G aitbi bgvrb Kiv nq| meᄡkl chᄡq tᄡK Z\_ , tjv msM0xZ nq|

**ᄡ Q bgvrb**: th bgvrb c0ZtZ mgM0tK KZK, tjv GKtKi mgw ev , ᄡ wtmte wePbv Kiv nq Ges ᄡePqZ bgvrbZi gvaᄡg , ᄡ bePb Kiv nq I cieZᄡZ bePZ , ᄡmgᄡni Ašfᄡ mKj GKK tᄡK Z\_ msM0 Kiv nq ZvK , ᄡ bgvrb etj | , ᄡ bgvrb ᄡli Z bgvrb tᄡK wecixZ aitbi nq| ᄡli Z bgvrb GKK, tjv GKB aitbi euk0 m=ubeq| cᄡvšᄡi , ᄡ bgvrb , ᄡi GKK, tjv gtaᄡ meᄡr gvᄡvi AmgZv weivR Kti |

**ıb:mıtebv bglvqb:** ıb:mıtebv bglvqtb AbıyÜvbKvix ıbR`ınePvi-ewx, AıwfÁZı, Ávb cÜqvM Kti mgMöK t\_řK cÜZıbaZgıj-K bglv GKK,tıv ıbePb Kti b| bglv ıbePbKıřıj AbıyÜvbKvix th Dřİřk` DcvĔ msMö Kiteb tıwřKı mRvM\_ıvKřeb| GB cıwZřZ mıtebv ZřĔıj Aıřıj vřK bglv ıbevPb Kiv nq bv etj BıvřK ıb:mıtebv bglvqb ej v nq|

ıb:mıtebv bglvqb AvKıw`řK, Dřİřk`gj-K l tKıvUı cıwZřZ nřZ cıřı| nVıv Kti ev AvKıw`řKfıře hıřK cvl qv hıře ZıřK bglv GKK ıwřıřte ıbePb Kıřıj ZıřK AvKıw`řK bglvqb cıwZ ej v nq| Ab`ıřK tKıv mgMöKi ıneřfbıDcv`ıřı tKıvUı ıbařı b Kti D³ tKıvUı Abıyqıx bglvqb Kiv nřıj ZıřK tKıvUı bglvqb etj | G aıřı bglvqb nřıj v`ıı Z` e bglvqřıbı `řı meKıř | Aveıı ce`ıbařıı Z tKıv Dřİřk` ev ıetePbıřK mıgřıb tıřL bglv ıbePb Kiv nřıj ZıřK Dřİřk`gj-K bglvqb etj |

**bglvR l AbglvR ıePız** (Sampling and Non-Sampling Error): tKıv mgMöKi bglv ıbePb Kti Rıwřıci gıv`řg cÜB djvdj t\_řK bglvı `eıřkřo`ıi mıZ`Kıv cıı gıv Kiv mıře nq bv eis mgMöKi `eıřkřo`ıi GKUı cÜ`ıj Z cıı gıv Kiv nq| Zře mgMöKi `ıgıvıx Rıwřıci gıv`řg Dıvı `eıřkřo`ıı mıZ`Kıv gıv Rıvıv hıvq| `ıgıvıx Rıwřıci gıv l bglv Rıwřıci gıřıbı gıřa` th cv\_ř` cııjıřıřZ nq DıvřK bglv ıePız etj | mıřebv ZřĔıj mıvıřth` bglv ıePızı Mo ıe`ıı ıbYř Kiv hıvq| bglv ıePız Kgıřıbıv mıRZg cřıv nřıj bglvı AvKıv ewx Kiv| GZÜ`Zıx bglv ıePız Kgıřıbıv Ab`ıv` cıwZ,tıv nıj : `ıı ıeb`ım Kiv, mıřıřK Z\_` e`enıv Kiv Ges eü chřıqıx bglvqb Kiv cřıwZı|

AbglvR ıePız bglv t\_řK D`ıe nq bv| tKıv Rıřıřc AskMöıYKvix Z\_`msMöK, Z`ııKKvıx, mıııY cÜ`ZKıv K Ges Ab`ıv` Kgıř`ıı Üvıv mıřıwı Z ıneřfbıKıv thgb Rıı c bKkıv cřıqb, cřıgıjıv cřıqb, Z\_` msMö, mıııYeıKıY BZ`ııı ıııđ, AmıřıYřı, AcÜZıbaZřıj Zı cřıwZıı `ıab th ıePızı mıř nq DıvřK AbglvR ıePız etj | mgq gZ cřıeĪ řcÜřıY MııđıwZ, DĔı `ıvZıř`ı Üvıv mıř ıePız cřıwZ. Kıgřq Avıv AZ`řıKıwB KıvR| Zře Z\_` msMöKvıx, Z`ııKKvıx l Ab`ıv` Kgıř`ıı fıj fıře cřııY`ıv Kti Ges ıek` fıře cřıeĪ cřıqb Kti AbglvR ıePız ıbggıřıvq ıvLıv tPöv Kiv nq Ges GřZ ıKQıvı mdj Zıı jıvř Kiv hıvq|

**bglvqřıbı mıřıevjx**

**bglvqřıbı mıřıevjx:** tKıv mgMöKi `eıřkřo`ıi mıřıřK`bglvqřıbı mıvıřth` hıřı hıř fıře Abıyıv Kiv hıvq| mgMöK mıřıÜ AbıyÜvb Kıvı Rb` `ıđ cıwZ ıřıřıřı| cıwZ,tıv nřıjıv-(K) `ıgıwı (Census) l (L) bglvqb (Sampling)| `ıgıvıxı třıřıř mgMöKi cÜZıw GKK mıřıřK`Z\_` msMö KıřıZ nq| cřıvřıřı bglvqřıbı třıřıř mgMöKi cÜZıw GKK mıřıřK` Z\_` msMö KıřıZ nq bv eis mgMöK t\_řK ıKQıvıKQıv bglv evQıv Kti H mKj bglvı Z\_` msMö KıřıZ nq Ges cÜB Z\_` ıeřK- lřıYı gıv`řg mgMöKi `eıřkřo`, Mıř cřıwZ. cřıwZ. mıřıřK`hıřı mıřıZ Abıyıv Kiv nq| `ıgıwıı Zřıvıq bglvqřıbı třıřıř G aıřı b AřıK,tıv mıřıev ıřıřıřı| mıřıev,tıv nıj :

- bglvqb `ř e`řq mıřıbıKıv hıvq|
- GřZ Z\_` msMö l cřııřıvKıřıY K g mgq jıřıM|
- bglvqřıbı `ř e`q l `ř mğřı cřııřıv nq etj tKıv AbıyÜvıřıbı evı evı cřıııřı<sup>3</sup> Kıv hıvq|
- bglvqřıbı mıvıřth` AıwZ`řZ mgMöK mıřıÜ ımıřıřıřıřıv hıvq|



- bǵvǵb Rwiƚc iǵviǵ Rwiƚci Zǵbǵv mWKZvi ǵvĪv teƵk nƚZ cviƚ |
- fš,i cǵkuzi űkĪ RvZ ǵe“i ǵub hĪPvBtǵi tŵĪĪ tKej ǵvĪ bǵv Rwi c e“envi Kiv hǵ|
- mgMĪKi AvKvi teƵk eo nƚj AbǵvĪvƚbi tŵĪĪ bǵvǵbB nƚjv tkō cšĪ|
- AƚbK mgǵ iǵviǵi ǵvātg cĪB Z\_ƚK hĪPvB Kivi Rb“ bǵv Rwiƚci ǵvātg Z\_“ msMĪh Kiv nǵ| G aiƚbi Z\_“ msMĪh bǵvǵtbi ,iāZƚK űeƚkl fĪte ep× Kƚi |

**mǵve×Zv:** AƚbK ,tjv mǵvav \_vKv mƚĒjĪ bǵvǵtbi KZK ,tjv mǵve×Zv iƚqƚQ| mǵve×Zv ,tjv nƚjv-

- Gǵb AƚbK ,tjv tŵĪĪ iƚqƚQ thLvtb iǵvűi Awak cĪqĪRbxǵ I e“vcK Z\_“ űfĪĒK nǵ| thǵb- Kű .iǵvűi, Av ǵ iǵvűi cŵvZ.|
- cűi Kűi ZfĪte cűi Pvj bv KĪZ bv cviƚj bǵvǵtbi mĪvűh“ mWK djvdj jvf Kiv hǵ bv|
- t`ƚki űkűŵZ, `ŵ I cǵkŵŵ cĪB Rbkű³ űbtǵvƚMi tŵĪĪ bǵvǵtbi Zǵbǵv iǵvűi ,iāZj Awak|
- bǵv űbeĪPb e`űbō (Objective) bv nƚq e“ű³ mƚcŵ (Subjective) nƚj bǵvǵtbi djvdj űeāűšmǵō KĪte|
- Rűlj tKvb bǵvǵb c×űZ e“envi KĪtj thűM“ ǵvKǵŵ, Z`viKKvix cŵvZi AfĪte bvbűea fǵ űm×űšĪ DcbxZ nĪ qvi mǵvǵbv \_vƚK|

**bǵv Rwi c:** bűűZMZ ű K t\_ƚK Awakvsk bǵv Rwi c GKB chŵfŵ nƚj I űeűfbǵb bǵv Rwiƚci ǵā“ űKōyctv\_Ŕ“ I Rűlj Zv \_vKƚZ cviƚ | bǵv Rwiƚci ZĒMZ űfĪĒ mǵúƚK© hƚó Ávb \_vKƚj G mKj cv\_Ŕ“ I Rűlj Zv Kűǵtǵ Avbv hǵ| bǵv Rwiƚci űeűfbǵb chŵf ev avc mǵúƚK© Ávb AvniƚYi ǵvātg bǵv Rwi cƚK mŵ i fĪte mǵúbǵKiv hǵ| bǵv Rwiƚci avc ,tjv űbƚP t`q v nj -

1. **Rwiƚci DƚĪk“ űbaŵY:** mŵúó fĪte Rwiƚci DƚĪk“ űbaŵY I Zv msÁűűZKĪY Rwiƚci cĪǵ avc űnƚmte űeűűPZ| Rwiƚci DƚĪk“ mWK fĪte űbYŵ KĪZ bv cviƚj Rwiƚci ǵvātg KűŵŵZ djvdj AvRZ nte bv|
2. **mgMĪ msÁűűZKĪY:** Rwiƚci mgMĪƚK GǵbfĪte mŵsÁűűZ KĪZ nte hƚZ cieZxŵZ KűhŵŵĪ mŵǵv“Zǵ AmŵvavĪ t`Lv bv t`q|
3. **Z\_“i cǵkuz. űbaŵY:** th mKj Z\_“i ǵvātg Rwiƚci DƚĪk“ mǵv ev`ǵvǵ Kiv thƚZ cviƚ Zv űbaŵY KĪZ nte| Z\_“ hƚZ ev` bv cŵo Ges AcĪqĪRbxǵ Z\_“ thb eRĪ Kiv nǵ tŵű ƚK j ŵĪ“ i vLƚZ nte|
4. **Z\_“ msMĪni c×űZ:** űbeŵPZ bǵv ,tjv t\_ƚK cĪZ`ŵ fĪte A\_ŵ mŵŵŵKĪi i ǵvātg Z\_“ msMĪh Kiv nte, bv cŵŵŵ fĪte Z\_“ msMĪh Kiv Zv űbaŵY KĪZ nte| Z\_“ msMĪni c×űZ, Rwiƚci DƚĪk“, cǵkuz, Av\_Ŕ eivĪ I mgtǵi Dci űbƚP KĪ űbaŵY KĪZ nte|
5. **bǵvǵb tǵǵ cŵq I bǵv űbeĪPb:** bǵvǵb tǵǵ GKűű AZ`šĪ ,iāZcŵŵelq| mgMĪKi th Zŵj KĪ ev bKmŵ Abǵvǵx mgMĪKi mǵúŵŵGj vKv t\_ƚK Z\_“ msMĪh Kiv nƚq \_vƚK DűƚK bǵvǵb tǵǵ eƚj | bǵvǵb tǵǵ cŵq KĪ bǵv GKK ,tjv i

- Zvij Kv t`tk bglv ibePb Kiv nq| bglvi AvKvi Rwiłci Rb` eiv`KZ.A\_©I  
KvLZ wbfjZvi Dci wbfP Kti wbaŃY Kiv nq|
6. **cłeł cłqb:** Rwiłci Dł`k` I Zł`i cłqvRbxqZvi wbiłŁ cłeł cłqb KiłZ  
nte| cłqłjv nte mnRłeva, cwi`vi, cłqvRbxq, e`vL`vgj-K, Aweiw`Ki,  
mswŃB, mygwłSł I wePŃY| gvV chłq łcłłYi cłeł cłeł eiv eiv Ges fvj fite  
cixŃv wbiłŃv Kti ł`ŁłZ nte hvłZ μwł, łjv`ł-nq|
  7. **Z` mslMłKvix wbtqM I cłkŃY`vb:** mr, wbfPłkj, AvZel`qx, wkwŃZ,  
thwłZvm`ubel DchŃ e`włł`iłŁ Z`mslMłKvix wntmte wbtqM`vb KiłZ nte|  
Rwił Kgl`i`ŃZv I AwfÁZvi gvı wbyŃ Kti Zv`i cłkŃłYi cłkŁ. I  
mgqKvj wbaŃY KiłZ nte| GZł`ZłZ Rwił Kgl`i GłKKw ev KłqKw Młci  
Rb` GKRb Kti mgvıfvBRvi wbtqM`vb KiłZ nte| mgvıfvBRvi łłKl  
cłkŃY`vb KiłZ nte|
  8. **cłK ibePb (Pre-Test):** Rwił KvR`iıæKivi łłeRwił m`úłKŃł`ó Avbm`ubel  
e`włł`i m`Ł Z`mslMłKvix`iłŁ cłeł łłYi wbgqKvby, mgq cłwŁ. nıłZ  
Kjłg cłqvłMi młthwł Kti ł`qv Ges G m`úłKŁ A`úóZv`ł-KivB nłjv cłK  
wbaŃłbi gj-KvR|
  9. **KvŃŃł Z` mslMł cwiPvj bv:** mgvıfvBRvi Z`Eıevłb mslMłKvixiv Z` mslMł  
Kiłeb| G chłq mgzłwi Kıbvi gva`łg Z` mslMłni KvR cwiPvj bv KiłZ nq|  
mslMłxZ Z` Rwił KvŃŃłłi mgvıfvBRviMY cixŃv Kiłeb| łKv`v I A`úóZv I  
Am`úYŁv`vKłj Zv`ł-Kivi Rb` mslMłKvix`i młthwłMz MłY Kiłeb|
  10. **D`Ei bv cvlqv (No-Response):** RwiłKvłj bv D`Ełi cwiıgvY Ges cłBe`  
gj`ıqb, łjvłZ Gi m`łe` cłve m`úłKŃłj - L KiłZ nte|
  11. **mvi-mstŃcY I Z` włkłY (Abstraction and Analysis of Data):** mslMłxZ  
Z` , łjv m`úv`bvi (Edit) KvR mgvı KiłZ nte Ges fıł`ıv`vKłj Zv`ł-  
KiłZ nte| AZci Z` , łjvłK mviwYex KiłZ nte I cieZłŁ cwi msl`włk  
włkłłYi gva`łg KvŃŃłZ cııgvłv, łjv (Parameters) łi KiłZ nte| cwi msl`włk  
włkłłYi gva`łg cłB Z` , łjvłK mYi I mYúófıte wıłcvłU` mrvıth` cłkv  
KiłZ nte| cłB djvđłj i , iazłY`Astki eYłv cłvb KiłZ nte Ges djvđłj i  
wıłEłZ cieZłKiYıq m`úłKŃłjłv Dc`ıcb KiłZ nte|

**włŃv cwi Kıbıq bglvıq I Rwiłci cłqvRbxqZv:** włŃv cwi Kıbıv Ggb GKwł cłııqv  
hvi gva`łg włŃvi eZŃv MıZ-cłkŁZi Dci wbfP Kti fıel`Z włŃvi łfłıv cłqb  
Kiv nq| włŃv e`e`ıq thgb`vłK bıvıgłx młthwł Ges m`łebv łZgıv`vłK bıvıv  
cłZełKZv| cłZełKZvi głjırcıvUł Kti m`łebvi łvi AemiZ KiłZ nłj  
cłZełKZvłK młbıv`łfıte wPıYłZ KiłZ nte| GłŃŃł bıvıgłx MłelYv cwiPvj bvi  
cłqvRb łłqł| bglvıq I Rwił e`ZłZ łKıv MłelYv Kgl`ıq DłV Am`úYł bglvıq,  
Rwił I MłelYvi gva`łg cłB Zł`i Dci wbfP Kti MłelKMY włŃvi bıvıv`łZv I  
AmıwłZ ŁłR łi Kłıb| GmKj AmıwłZ, łwł,`łZv`ł-Kivi Rb` bıvıv aıłbi  
hıv`mıwłZ c`łŃc MłłYi mgvıı Kłıb| GmKj mgvııłki wıłEłZ łłki Av`mıvıwłRK  
Dbłłłbi ZvıMł` Ges cłB m`úł`i Dci wbfP KłıB cwi Kıbıvıe`MY włŃv cwi Kıbıv  
cłqb Kti`vłKb| AZGe włŃv gj`ıqb, włŃv e`e`ıv`ejZv wııfıY, bıvııea włŃv  
cłKı MłY Ges młevııi włŃv cwi Kıbıv cłqłb bglvıq I Rwiłci , iazłAcııııg|



### ciVvEi gj`vqb: 4.5

#### A) eú ubePbx cĕæ

mıWK DĒi ubt`R gj-K AŋiıUtk eĒııqZ Kiab | (D`vniY: Arcbvi ubePZ DĒiıU ŐKŐ ntj Gtk K eĒııqZ Kiab)

- 1/ mætebv ZtĒji wfiĒtZ th bgıvqb Kiv nq, Zıtk
  - K. tkııv bgıvqb etj
  - L. Dtı k`gj-K bgıvqb etj
  - M. mætebv bgıvqb etj
  - N. ub:mætebv bgıvqb etj |
- 2/ th bgıvqtb GKııaK chıq t\_tk bgıv ubePb Kiv nq, Zıtk
  - K. hı Z bgıvqb etj
  - L. ubqg gwıdK bgıvqb etj
  - M. eú chıq bgıvqb etj
  - N. ı`Q bgıvqb etj |
- 3/ mgMĔKi cĔZıU GKK mæútk`Z\_` msMĥ Kiv nq tkıv&gva`tg
  - K. bgıvqtbı
  - L. i gııı i
  - M. bgıvR ıePzıZı
  - N. AbgıvR ıePzıZı |

#### Av) msıŋB DĒi cĕæ

- 1. hı Z bgıvqb ıK?
- 2. ub:mætebv bgıvqb ej tZ ıK tevıSb?
- 3. ıKŋıv cıı Kıbvq bgıvqb I Rıı tci cĔqıRbxqZıv ıK?

#### B) iPhıgj-K cĕæ

- 1. bgıvqtbı msÁı ıj Lı | ıııfbacKıvı bgıvqtbı cııZ Avtj vPbv Kiab |
- 2. bgıvR I AbgıvR ıePzıZ mæútk`ıj Lı | bgıvqtbı mıeavejx I mıgveıZıv ııııY ı`b |
- 3. bgıv Rıı c ıK? bgıv Rıı tci arc\_ıjv ııııZ Kiab |

mıWK DĒi: A) 1 | M, 2 | M, 3 | L

**Reference:**

1. *RM`xk P>`a`iKř`vm I Gd Gg Avngiřj Bmj vg: cwi msL`vb cwi PivZ, `ř Ae  
neRřbm, evsj vř`k D>gř nekře`ij q, MvRřcřj, 1997 Bs|*
2. *gřbiv trvřmb I kvnRvrvb Zcb: cwi msL`vbMZ cwi gvc I Afrřřiv, `ř Ae  
GWřKkb, evsj vř`k D>gř nekře`ij q, MvRřcřj, 1999 Bs|*
3. *gřb>`aKřvi ivq, iev`abv\_ křj, tgřřij K cwi msL`vb cwi PivZ, cKřvK I j Mv ivq,  
PřEMřg, 1994 Bs|*
4. *tgřRvvi Dřil`b Avnřg` : AvayřK cwi msL`vb, gřij K eř`vm, Xiv, 1998 Bs|*
5. *tgřrvřř Avj x řgTv I tgřv: Avj xg Dj`v řgqvř: cwi msL`vb cwi PivZ, AvBřřvřj  
j vřřeřx, Xiv 1994 Bs|*
6. Douglas A. Lind, Robert D. Mason: Statistical Techniques in Business and Economics. Seventh Edition. Boston MA 02116. 1990.
7. GUILFORD: Fundamental Statistics in Psychology and Education, Fourth Edition, McGraw-Hill Book company, New York, 1965.
8. John H. Mueller & others: Statistical Reasoning in Sociology, Third Edition, Houghton MIFFLIN Company, Boston, 1977.
9. M.G. Mostafa: Methods of statistics, Anwari publication, Dhaka, 1972.
10. S.R. Sharma: Statistical Methods in Educational Research, Anmol publications pvt. Ltd. New Delhi -11002, 1997.



**cW 5.1**

**uk`lv cwiKibvi GtcPmgn-**

**Df`ik`**

GB cW tk`l Av`cib-

- uk`lv cwiKibvi cl`yq`bi weifbaGtcP`\_ t`j v ej`z cvi`teb
- weifbaGtcP`i m`yav Am`yav mgn Df`l Ki`z cvi`teb
- cwiKibvi cl`yq`b uk` uk` mel q we`pebv Kiv c`qvrB Zv Av`j vPbv Ki`z cvi`teb |

cw\_exi A`bK t`tkB we`kl Kti Db`qbkj t`tk ivR%bwZK tc`qvU cwiEZB ntj uk`lv melqK wP`si fievbi cwiEZB Nf`U| Avevi A`%bwZK ev`eZvi Rb`l uk`lv cwiKibvi q cwiEZB Av`tZ nq| GQvor mivmRK `w`fwi`zi cwiEZB`bi mv`\_ mv`\_l uk`lv`z`b bZb wP`si D`b`l Nf`U| GB mg`l w`K we`pebv Kti uk`lv cwiKibvi GtcP`l weifb`emgtq Av`j`v`v n`q`\_v`k| thgb Iv`Ui `k`K uk`lv cwiKibvi gy` Df`ik` n`z`v gibe m`u` Db`q| tKbbv gibe m`u`i Db`q`bi DciB RivZiq Db`q euj`v`tk w`f`k`j | ZvB ZLbKvi w`tb Manpower Requirement ApproachB w`j cwiKibvi gj` w`K w`b`Rbv| GB GtcP`i `w` w`K w`n`j v w`f`y Ges wek`m`thvM` DcvE cvl qv Ly `jan e`v`vi |

mE`ti i `k`K cw\_exi weifb`et`tk gvb`j`i mev`z`y wek`v`k mivmRK wek`v`ki c`z`\_ ia`z` Av`ivc Kiv n`z`v| ZvB mivmRK P`w`v`k miv`tb ti`l ZLb uk`lv cwiKibvi cl`yq`b Kiv n`z`v| GUv n`j`v Social Demand Approach. Gi `w` w`K n`j`v miK`v`i i Dci Av`l`Pvc teuk nq|

cieZx` k`K gvb`j`i a`vb aviYv P`j Av`m Avq e`t`qi w`m`v`ei Dci | KZ A`%w`b`t`q`vM Ki`j uk` j`v`f cvl qv h`v`e, Rv`z KZ ZvovZvwo Av`l`R`f`v`e teuk Db`z n`e BZ`w` w`P`si fievbi Dci w`f`P` Kti cwiKibvi Kiv n`z`v| GB GtcP`k ejv nq Cost Benefit Approach| G GtcP`i Am`yav n`j`v A`%bwZK DcKvi Qvor Ab`vb` DcKv`i i K`v we`pebvq Av`m bv| GLb cwiKibvi cl`yq`bi Rb` gibe m`u` Db`q, mivmRK P`w`v`v ci`Y Ges teuk j`v`f`v`b n`l qv BZ`w` mKj w`K we`pebv Kti cwiKibvi M`h`Y Kiv nq| Zv Kiv n`j`l cwiKibvi`e`t`i g`a` gZ`v`e`i`v`a i`t`q`0| cwiKibvi cl`yq`bi Rb` GLbl tKvb m`j`v`i` MvBW j`v`Bb `Zvii nq`v`b| Z`e wek`o cwiKibvi`e`t`i g`z Db`qbkj t`tk uk`lv cwiKibvi M`h`Yi Rb` w`b`Pi mel q`\_ t`j v we`pebvq ivLv c`qvrB|

**c`l`vgK uk`lv**

- uk`lv`z`y m`m`a`k w`ki i (100%) A`S`f`y` |
- uk`lv`i gvb Db`q`Y A`v`w`ki iv thb j`a` uk`lv`f`k a`ti ivL`z` cv`ti |
- uk`lv`i gvb Db`q`tb uk`lv`k`i`i c`k`v`y c`v`b |
- Av`Kl`v`x`q cv`c`y`k w`ki`i`i n`v`z` Z`j` t`l`q`v |

**gva`vgK uk`lv**

- c`l`vgK uk`lv`i mv`\_ m`z`w`z ti`l gva`vgK uk`lv m`u`v`i`Y Kiv |
- D`P gva`vgK uk`lv`i`\_ Y`M`Z gvb Db`q`b Ges wek`pe`ij`q A`\_ev e`w`E`g`j`-K uk`lv`i Dc`thvMx Kti t`z`v`v |



**cW 5.2**

**ukʎv cwiKí bwe` I ukʎv cwiKí bvi `enkó`**

**Dtík`**

GB cW tkʎI Avcwb-

- GKRb cwiKí bwe` tK ukʎvtʂe cwiKí bv KvʎR Gwmʎq thʎZ nq Zv DtjL KiʎZ cviʎeb|
- we`ij q/Ab`vb` ukʎv cWZóvb g`mcs Kivi mgq uk uk nel q weʎePbv Kiv cWqvRb Zv Avʎj vPbv KiʎZ cviʎeb|
- Pwn`v ubiʎʎYi cšv,tj vi bvg ej ʎZ cviʎeb|

**ukʎv cwiKí bweʎ` i `enkó`**

ukʎv cwiKí bwe` GKRb weʎkIÁ| t`tki Av`mvgwmRK Ges mvs`wZK Ae`vi mʎ`\_mʎwZ tiʎL cwiKí bwe` tK avʎc avʎc cwiKí bvi KvʎR Gwmʎq thʎZ nq| cwiKí bvi weʎfbwavc Rvʎv thgb cWqvRb cwiKí bv cWqvʎbi GʎcW RvʎvI tZgwb cWqvRb| GQvov ukʎv mʎúwKZ Pj K I mPK,tj v mʎúʎKʎ Zvú Rvʎv cWqvRb| hw` Avgi v we`ij q hveni eqʎmi mKj ukíʎtK we`ij q cWvʎZ Pvb Zv ntj Avgvʎ`i Avʎiv we`ij q cWqvRb| we`ij q,tj v thLvʎb tmLvʎb `mcs ntj Pjʎe bv| G,tj v RbmsL`wʎfúEK t`tki meʎ`mcs nIqv evÁbixq| Zvi Rb` we`ij q/cWZóvb cKʎí i Rb` cwiKí bwe` tK cWZóvb g`mcs Ges Pwn`v mʎúʎKʎvʎʎZ nʎe| cWZóvb g`mcs G ubʎai nel q,tj v \_vKv cWqvRb|

- RbmsL`v mspvšI Dcv`vb
- tʎšʎmʎij K cwiʎek mspvšI Z`
- Gj vKvi Av`mvgwmRK Ae`v mʎúwKZ Z`
- Gj vKvi i vR%bwZK cwiʎek
- Gj vKvi ukʎv mʎúKixq Dcv`vb
- Gj vKvi gvbe mʎú` mʎúwKZ Dcv`vb|

**ukʎv Pwn`v ubiʎʎY:** ukʎv cwiKí bwe` t`i mōzl ev`é cwiKí bv cWqvʎbi Rb` Zvʎ`i ukʎv mʎúwKZ Pwn`v ubiʎʎY AZ`vek`K| Pwn`v ubiʎʎYi Rb` Gj vKvi RbmvgwZK `enkó`,`mvgwmRK Av`k,© gj-ʎeva,`wʎfúw, Avkv AvKvLv ukʎv cKʎí i gva`tg cW`E mʎhvm mʎeav e`envʎi i AbKj I cWZKj cwiʎek| GQvov RbmvariʎYi `ZúZ`Ask MhʎYi gvĭv BZ`w` weʎePbvq AvʎʎZ nq|

**Rwic:** Pwn`v ubiʎʎYi AʎbK cšv AvʎQ| thgb- Rwic, Avʎj vPbv- mgvʎRi weʎkó e`w³eM, ukʎK, ukwʎZ I cWZúwZ `vqx Ab`vb` mvgwmRK cWZóvʎbi e`w³eMʎ mʎ½ Avʎj vPbv, gZ weʎbgq BZ`w`| A`w` mgvʎRi ZYgj- t`tK Z`w` MhY Kʎi e`wóK cwiKí bv cWqv Kiv nq| Avevi RvZixqfʎe cWZ Z`i Dci wʎfúE Kʎi I cwiKí bv `Zix Kiv nq| G aiʎbi cwiKí bʎtK mvgwóK cwiKí bv ej v nq|





### **ciVvEi gj`iqb: 5.2**

#### **A) eú ubePbx cġæ**

mıWK DĒi ıbt`R gj-K AŋiıUtk eĒıvqZ Kiab | (D`vniY: Avcbvi ubePZ DĒiıU ŐKŐ ntj Gtk (K) eĒıvqZ Kiab)

1. we`ıj q tKgbfvte `ıcb nı qv cŰqvRb?  
 K. tbZv`i B`Qvq  
 L. `ıbxq MY`gvb` e`ı³ i B`Qvq  
 M. RbmsL`vi ıfıEtkZ  
 N. miKvix Avgj v`i B`Qvq |
  
2. e`ıŐK cıı Kıı bv A\_ŋK?  
 K. mgıtkRi MY`gvb` e`ı³ etkMP ıbKU t\_ık Z\_` msMŋ Ktk cıı Kıı bv Kiv  
 L. miKvix KgRZŋ`i ıbKU t\_ık Z\_` msMŋ Ktk cıı Kıı bv Kiv  
 M) agŋeYŋıeŋktkı mKtkı ıbKU t\_ık Z\_` msMŋ Ktk cıı Kıı bv Kiv  
 N. mgıtkRi ZYgj- chŋq t\_ık Z\_` msMŋ Ktk cıı Kıı bv Kiv |

#### **Av) msıŋB DĒi cġæ**

1. Pııı`v ıbıfcY ıK?
2. ıKŋıv cıı Kıı bııe` KvtK etj ?

#### **B) iPbıgj-K cġæ**

1. ıKŋıv cŰZŏvb cıı Kıı bııe`ı i ıK ıK Rııv cŰqvRb?
2. ıKŋıv Pııı`v ıbıfcıı cšı\_ıj v Avtkı vPıı Kıı ab |

**mıWK DĒi: 1 | M 2 | N**

**cW 5.3**

**ukřŇv cřŇi: mbv<sup>3</sup>KiY, cřŇqb, ev<sup>-</sup>ěvqb**

ukřŇvi Dbqřbi Rb` cřŇZuW cĀeml R cwi Kři bŇq AMŇMY`Zvi wřŇEřZ ukřŇv cřŇi MřŇY Kiv nřq \_vřK| gŇbe mřúř`i gŇvřtg Aek` Ab`vb` mKj mřú` KřřR j wMřq cwi Kři bŇ ev<sup>-</sup>ěvqb Kiv nq|

**DřŇk`**

GB cW řkřŇl AŇcŇb-

- cřŇi mbv<sup>3</sup>KiY cřŇuqv mřúř`Křej řZ cvi řeb
- cřŇi MřŇřŇi Rb` ukřŇv cwi w`řZ, Av`řŇvgŇŇRK Ae<sup>-</sup>v Ges ukřŇv mřúř`Křmi Křix bŇŇZ Ňeřk- IY KřřZ cvi řeb|

**cřŇi kbv<sup>3</sup>KiY cřŇuqv**

AřbK`řŇv mře` cřŇřŇi ga` ř\_řK hvi AMřŇaKřři řKřb evan bŇB, RŇZřq ukřŇv bŇŇZi mřř\_ mřgĀm`cř`Ges ev<sup>-</sup>ěvqb mře`Zv teŇk mŇvri YZ GB ařřbi cřŇi B MřŇY Kiv nřq \_vřK| ukřŇv cřŇi mŇvri YZ meřřřq teŇk AMřŇaKřři wřŇEřZB MřŇY Kiv nřq \_vřK| řhg- (1) bZb cřŇuqK Ňe`ij q `řcřbi Rb` AŇřřveKř`i `řex, (2) ukřŇvi `YMZ gŇb Dbqřbi Rb` mřvřři PŇŇŇv| GB ařřbi cřŇi AŇZ mŇřRB cřŇqb I ev<sup>-</sup>ěvqb mře` nq hŇŇ ŇbR`mřú` I Ař\_ř e`e<sup>-</sup>v \_vřK| Zv bŇ nřř Ař\_ř Rb` Ňek`e`řsK, GŇkqřb Dbqřb e`řsK Ges G ařřbi Ab`vb` mř`vi KřřQ aYř`řZ nq| G KřřřY cřŇi mbv<sup>3</sup>KiřŇi cře` ř`řki ukřŇv cwi w`řZ, Av`řŇvgŇŇRK Ae<sup>-</sup>v Ges mi Křix bŇŇZ ŇeřkřŇY KřřZ nq| GB ařřbi ŇeřkřŇY gř-K KřřřK řmři ř wŇŇI eřř| cřŇiv řmřřři Rb` G ř wŇŇ nřZ cřři Aveři cře`ř AmřŇb cřŇřŇi KřřR mřvřřbi Rb`I nřZ cřři|

**ukřŇv mřŇŇřřZ` cixřŇvi gŇvřtg řbavřY**

ukřŇv mřŇŇřřZ` w` cixřŇvi gŇvřtg G ařřbi ř wŇŇ Kiv nq| G Křřři Rb` DcvĒ mřMř Křř Ňeřk- IY KřřZ nq| ŇeřkřŇřŇi KřřR mřvřři PŇŇŇvi mřř` mřŇZ ři řL Kiv nq| GB Ňeřk- IřŇi wřŇEřZ ukřŇv Dbqřb řKřřři cřŇe`ZŇi Kiv nq Ges Zv Kiv nq RŇZřq Dbqřbi řbavřř Z bŇŇZi gřa`| GB cřŇe`řŇv me řmřřři cřŇuqRbřq Dbqřbi Rb` řbŇ qv nq| řhg- cřŇuqK/gŇvřřgK `řři ukřŇKř`i cřŇŇŇY/bZb cřŇBgřix `řř/gŇvřřgK `řři ŇeĀvb ukřŇvi Dbqřb| Giřc bŇ Křři cřŇiv ukřŇv řmřřři DbqřbKřř řhg ukřŇvřŇg Dbqřb/cŇV`cřK cřŇqb I ŇeZiY Giřc cřŇi I řbqv nq| GB mKj cřŇi B ev<sup>-</sup>ěZvi ŇbixřL ř`řki mřúř`i mřř\_ mřŇZ ři řL cřŇqb KřřZ nq| ukřŇv mřeřmřřři ř wŇŇI Rb` Ňbřři Ňel q`řŇv ŇeřePbřq řvLřZ nq|

- ř`řki Av`řŇvgŇŇRK Ae<sup>-</sup>v|
- gŇbe mřúř`i `řŇZvi `řř|

ḡ Ae GWKkb

- RvZiq Dbq̄tbi m½ m½wZi gvĪv|
- RbM̄Yi Zn̄ej t\_†K ē†qi m½wZ|
- AvMvgx 10/15 eQ̄ti i uk̄ŋv Dbq̄b m̄úúK̄Z `i`uk̄Zv|
- ev`b̄vqb tK̄Skj Z\_v RvZiq uk̄ŋv b̄wZi Av†j v†K AM̄M̄ngZvi w̄f̄w̄É†Z Kiv̄m̄úú`b|

GB ēvc̄v†i m̄vaviY c̄wiKíbv tK̄Skj Ae†b̄ Kiv nq| thgb- gvbe m̄úú†`i P̄w̄n`v w̄bifcY, uk̄ŋv w̄ebg†qi gva†g jv†fi w̄m̄ve, M̄ŌR†qU c̄h̄vi ÷w̄w̄, AvšR̄K̄ZK Z̄j̄bv| th†nZzGB, †jv mgv†jvP̄bvi D†aY`bq ZvB GB KivR, †jvi Rb` KZK, †jv tK̄Skj c̄ŋq̄w̄M Kiv nq| Avgv†`i gZ t`†k em̄l R̄ ev†RU `Zwi†ZB miKvi w̄nḡw̄m̄g Lvq| Dbq̄b ev†R†Ui m̄v̄v†h̄i Rb` w̄ek̄m̄s`v, †jvi w̄bKU aȲw̄†Z nq|

Av̄w̄R̄ m̄gm̄v Avgv†`i t`†k AZ`ší R̄w̄Uj | GB m̄gm̄v w̄ek̄d̄†Yi Rb` w̄ek̄l tK̄Skj ē`envi Kiv nq| Li†Pi w̄m̄v†ei Rb` Av̄Áw̄j K I AvšR̄K̄ZK ÷`v̄Ūw̄w̄w̄e†eP̄bvq Avbv D̄w̄PZ| Z̄vici m̄Kj Kiv†Ri Rb` GKK LiP Ges †gv̄U LiP h̄w̄P̄M̄h̄n` Kiv nq| uk̄ŋv Lv†Z w̄m̄v†ei w̄ek̄d̄Y thgb R̄w̄Uj Z̄vi m̄gm̄v Av†iv t̄w̄k R̄w̄Uj | †h R̄w̄Uj m̄gm̄v, †jv Anin c̄wiKíbv w̄e`MY ch̄eŋY K†ib tm, †jv w̄bḡe†c:

- c̄ŋq̄w̄K uk̄ŋvi K\_vB h̄w̄ aiv nq Z†e t`Lv h̄v†e uk̄ŋv½tb f̄w̄Z`Ges m̄j̄h̄w̄M m̄ȳeavi mgZvi cv`R` A†bK eo| w̄e`vj†q Dc̄w̄w̄Zi n̄vi kn̄ti i t†q̄ M̄t̄g A†bK Kg| Avevi M̄t̄gi mēP̄ GK iKg bq| t†š†M̄w̄j K Kvi†Y w̄e†f̄b̄eGj vKivq w̄e†f̄b̄e†i†bi n†q \_v†K| Lvj w̄ej thLv†b tekx e†K̄v†j tmLv†b w̄e`vj†q Dc̄w̄w̄Zi n̄vi Lv Kg| w̄j ½†f†` I Dc̄w̄w̄Zi n̄v†i i Z̄vi Zg` N†U|
- w̄e`vj q c̄k̄vmb m̄ȳŋ| bv n†j i w̄ZgZ K̄w̄m nq bv| uk̄iiv cv̄w̄m̄P̄ tkl Ki†Z c̄v†i bv| d†j AKZKiv†h̄P̄ msL`v ew̄x̄ civq Ges S†i covi n̄vi I e†to|
- uk̄ŋv ēe`v̄ mgv†Ri P̄w̄n`v c̄iY bv Kivq teKvi m̄gm̄v GK̄w̄ gvivZ̄K m̄vḡw̄RK ē`w̄ai†c̄ c̄ŋZf̄vZ|
- uk̄ŋv\_x̄P̄ i AZ`ší`ŋP̄ Ávb f̄v̄Ūvi, uk̄ŋvμ†gi `xbZv, `eÁvbK `w̄f̄w̄½ M̄to †Zvj vi †ŋ†Ī uk̄ŋvi c̄wi†e†ki Af̄ve, f̄vj cv̄w̄c̄ȳK Ges m̄nvqK c̄ȳ†Ki Af̄ve|
- QvĪ uk̄ŋ†K̄i Am̄vḡĀm` n̄vi, `ŋP̄ uk̄ŋK|
- uk̄ŋv c̄k̄vmbK `ŋP̄ Zv, GKiv†W̄w̄gK c̄wi`k̄†bi ēe`v̄ bv \_vKv|
- f̄M̄ēŋq w̄e`vj q feb, A†bK †ŋ†Ī bZb feb AZ`šíLv̄vc̄ f̄v†e `Z̄wi |

c̄Kí `Z̄wi i mgq G ai†bi m̄Kj w̄elqB w̄e†eP̄bvq Avbv nq| uk̄f̄v†e c̄K†i i gva†g GB m̄gm̄v̄m̄ḡr̄ mgv̄avb Kiv h̄vq w̄ek̄d̄†Yi gva†g Zv Lv†Z†q w̄b†q c̄K†i i Kiv†R AM̄h̄i n†Z nq| tm̄±ivj c̄K†i i Dbq̄b Avf`šíxY I ew̄nt w̄bqš†Ki Dci w̄b†P̄ K†i | d†j Gi Dbq̄b c̄ŋŋc̄Y Kiv Lv R̄w̄Uj KivR| ZvB c̄ŋŋc̄†Yi mgq P̄w̄n`vi AM̄M̄ngZv Ges Av̄w̄R̄ w̄K w̄e†eP̄bv K†i c̄ŋŋc̄Y Ki†Z nq|



### **cvřVři gj`iqb: 5.3**

#### **A) eũ bePbx cřæ**

mıWK DËi ıbt`R gj-K AŋiıUřK eĚııqZ Kiab | (D`vniY: Avcbvi ıbePZ DËiıU ŐKŐ ntj GřK (K) eĚııqZ Kiab)

- 1/ ıkrıv cřı cřıqb I ev`ėvqbKıřj ıbR`^mũř`i Afıře řKıv&řKıv& ms`vi ıbKU Ař\_P Rb` aYřw`řZ nq?  
 K. XıKv e`ısk, ıvRkırıx Kul..Dbqb e`ısk cřııZ.  
 L. eřK, MıgıY e`ısk cřııZ.  
 M. RbZı e`ısk, řmıbvıx e`ısk cřııZ.  
 N. nek`e`ısk, Gııkqıv Dbqb e`ısk cřııZ.

- 2/ ıkrıvi řmııvj cřřıři Dbqb řKıv aıřbi ıbqřřKi Dci ıbřP Kři?  
 K. AvřřRııZř  
 L. Avř`řııY  
 M. Avř`řııY I `eř`ıkk  
 N. AvĂıj K|

#### **Av) msıřřB DËi cřæ**

- 1. řmıı ÷ ıııV mũřřK eıřřřıq ıj Lıř|
- 2. ıkrıv mıeřřı Ki ÷ ıııVi Rb` řKıv ıel q, řj v ıeřPbıvq AvřřZ nq?

#### **B) ıPbıvj-K cřæ**

- 1. ıkrıv cřı mbr`KıY cřııqıv ıeeıY ıř b|
- 2. ıkrıv cřı ev`ėvqb cřııqıv mũřřKıj Lıř|

**mıWK DËi: 1| N 2| M**

**cW 5.4**

**cKÍ cųq̄tbi thŠr³KZv Ges cKÍ WVRvBb**

**Dfík**

GB cW tk̄l Avcwb-

- cKÍ i Dfík wbaųY I cKÍ WVRvBb m=útk̄ej tZ cvi t̄eb
- cKÍ i w̄b̄tq̄M I mst̄k̄vabgj-K cKÍ WVRvBb m=útk̄e vL v Ki tZ cvi t̄eb |

cKÍ i AMWngZv mbr³KZ.n̄tq̄ KZ̄t̄ųi Ab̄t̄ḡv b t̄c̄t̄j cwi Kí b̄m̄e MY cKÍ w̄b̄eP̄b K̄tib, thŠr³KZv w̄b̄aųY K̄tib, Dfík tmU K̄tib I cKÍ i i f̄c̄t̄i Lv Z̄wi K̄tib Ges Gi w̄f̄īĒt̄Z Kó Gw=̄t̄gU cųq̄b Kiv nq | thŠr³KZvi w̄f̄īĒt̄Z cKÍ w̄b̄aųP̄t̄Yi ce©chS̄l cKÍ avi Yv ̄e Avi w̄KQ̄b̄ bq | cKÍ i avi Yv ZYḡj, Av̄Āw̄j K Ges m̄teųP̄ ch̄t̄q̄ t̄\_̄t̄K Av̄m̄t̄Z cvi |

**Dfík w̄b̄aųP̄Y:** w̄b̄aųP̄Z cKÍ i thŠr³KZv w̄t̄k̄l f̄īt̄e w̄b̄aųP̄t̄Yi ḡv̄āt̄ḡB cKÍ i Kiv R̄ i īā nq | GB thŠr³KZvi w̄f̄Zi Av̄m̄t̄e P̄w̄n̄vi AMWngZv, m̄gm̄v̄ m̄ḡv̄aųt̄bi D̄civ̄q Ges G, t̄j̄vi R̄vZix̄q̄ w̄k̄ų̄v̄b̄w̄Zi m̄t̄½̄ m̄s̄w̄k̄w̄Zv | cKÍ i thŠr³KZvi w̄f̄īĒ n̄t̄e (1) m̄v̄ḡw̄RK D̄b̄q̄b̄ th̄gb- cŰ\_ugK t̄ī f̄īZ̄P̄ n̄vi ēw̄x̄, ḡv̄ā\_ugK t̄ī i w̄k̄ų̄v̄\_x̄P̄ i ̄ų̄Z̄v ēw̄x̄, D̄P̄ w̄k̄ų̄v̄i t̄ų̄t̄ī m̄R̄b̄k̄j̄ Z̄v ēw̄x̄ i m̄t̄h̄v̄M K̄t̄i t̄\_̄l̄q̄v BZ̄w̄; (2) w̄k̄ų̄v̄i ̄ȲM̄Z̄ḡv̄b̄ D̄b̄q̄t̄b̄ w̄k̄ų̄Ȳ cŰ\_uḡv̄i D̄b̄q̄b̄ m̄v̄ab; (3) cŰB̄ Āt̄\_P̄ m̄ēų̄āK̄ ē\_̄envi A\_̄ų̄ B̄ḡvi Z I Ab̄v̄b̄ m̄t̄h̄v̄M m̄ȳēavi t̄ų̄t̄ī h\_v\_̄ē\_̄envi |

w̄k̄ų̄v̄ LvZ/GWKkb tm±i ÷w̄w̄vi ḡv̄ā\_̄t̄ḡ cKÍ w̄b̄eP̄t̄bi GK̄u b̄ḡv̄-

eZ̄ḡv̄b̄ Aē_v̄	w̄k̄ų̄v̄ m̄gm̄_v̄	t̄K̄S̄k̄j	cKÍ m̄br³K̄iY
L̄ȳ M̄ix̄e t̄_k; w̄R, w̄W, w̄c L̄ȳ K̄g; w̄k̄ų̄v̄i n̄vi L̄ȳ K̄g (20%) ḡv̄_v̄f̄v̄ix̄ m̄i K̄v̄ix̄ c̄k̄v̄mb̄ eo ēv̄t̄RU w̄K̄S̄' t̄W̄w̄d̄v̄m̄U w̄k̄ų̄v̄ Lv̄t̄Z̄ ḡv̄t̄ 23%, B̄D̄w̄b̄U Kó t̄ēw̄k̄	ḡv̄t̄ 20 f̄v̄M̄ w̄k̄ī w̄ē_v̄j̄ t̄q̄ h̄v̄q, D̄c̄w̄v̄Z̄i n̄vi L̄ȳ K̄g	cŰ_ugK w̄k̄ų̄v̄i D̄b̄q̄b̄, ḡv̄ā_ugK I D̄P̄ w̄k̄ų̄v̄i LvZ t̄_̄t̄K cŰ_ugK w̄k̄ų̄v̄q̄ w̄KQ̄y Ask t̄Q̄to t̄_̄l̄q̄v̄	cŰ_ugK w̄k̄ų̄v̄i w̄b̄q̄š̄t̄Yi R̄b̄ cix̄ų̄Y, ḡj_v̄q̄b Ges m̄st̄k̄v̄aųt̄bi ḡv̄ā_̄t̄ḡ cŰ_ugK w̄k̄ų̄v̄i I c̄k̄ų̄ų̄t̄Yi R̄b̄ cKÍ M̄h̄Y

cKÍ m̄br³K̄iY, cųq̄b Ges ēv̄\_̄ēv̄q̄t̄bi m̄ēt̄P̄t̄q̄ ̄īāZ̄c̄Y©K̄v̄R̄ n̄t̄j̄v̄ h\_v\_̄f̄īt̄e cKÍ i Dfík w̄b̄aųY | Dfík eZ̄ḡv̄b̄ m̄gm̄\_v̄ w̄b̄īmb Ges f̄īēl̄ t̄Zi R̄b̄ m̄ḡj̄ Av̄b̄q̄b̄K̄v̄ix̄ n̄t̄e | cKÍ i Dfík ēv̄\_̄ē n̄t̄j̄B cKÍ ēv̄\_̄ēv̄q̄b̄ m̄āē nq | Āt̄b̄K̄ t̄ų̄t̄ī cKÍ m̄br³K̄iY, cųq̄b I ēv̄\_̄ēv̄q̄b̄ w̄K̄B̄ nq w̄K̄S̄' cKÍ w̄c̄w̄īq̄W̄ cvi n̄t̄q̄ t̄M̄t̄j̄ Z̄vi i ų̄ų̄Ȳt̄ēų̄Ȳ I P̄w̄j̄ t̄q̄ t̄b̄l̄q̄v̄i ē\_̄ē\_v̄\_v̄t̄K̄ b̄v̄ (Sustenance) | d̄t̄j̄ c̄t̄j̄v̄ Āt̄\_P̄ Ac̄P̄q̄ N̄t̄U | cKÍ Z̄L̄b̄B̄ m̄v̄\_̄R̄ nq h̄w̄ Dfík ēv̄\_̄ēw̄f̄īĒK̄ nq Ges d̄j̄v̄d̄j̄ v̄q̄x̄ nq (Sustainable) | Av̄ḡv̄t̄ i t̄\_̄t̄K̄ ĀZ̄x̄t̄Z̄ ēu cKÍ ē\_̄Z̄v̄q̄ ch̄ēw̄m̄Z̄ n̄t̄q̄t̄Q̄ | cKÍ i ēv̄\_̄ēZ̄v̄ Ges v̄q̄x̄t̄Z̄i R̄b̄ cŰq̄v̄R̄b̄

cKÍ cŕqbKviŕi t`k meŕtki ev`e AwfÁZv Ges GKB aiŕbi cKŕi cŕZtekr t`tki AwfÁZv, cKÍ ev`evqtb mgm`v mgr- mgvaiŕbi Dcvq m`útkAewNZ nl qv|

### **cKÍ WVRvBb**

ibePZ cKŕi Dŕí k` ubaŕŕi ci cwi Kí bme`MY mvgvRKfiŕe cKÍ WVRvBb Lyŕtq t`ŕLb| cwi Kí bme`MY ubŕPi mel q, t`j vi Lyŕbvi Zuj t`q t`ŕLb:

- ev`evqb tKŠkj wK wKbv?
- weibŕqvM h\_v`nŕe wKbv?
- AvbgvmbK cKÍ LiP KZ nŕe?
- mi KviŕK cieZŕZ wK cwi gvY Recurring Cost enb KiŕZ nŕe|
- cKÍ mgq cvi nevi ci cKÍ ũi ũŕK\_vKvi m`eŕv|

cKŕi cŕqvRb tŕŕZ weibŕqvM; thgb- Bgvi Z, AvmevecĪ hšcviZ Ges AvbgvmbK `e`w` ŕZwi l µq Ges tešv`K weibŕqvM ; thgb cŕKŕŕi Rb` e`q, Kvi Mix mnŕhvmZv| Avgvŕi t`tk cŕŕgv<sup>3</sup> weibŕqvMB tenk| hvi dtj Avgvŕi cwi gvYMZ DbvZ ntj l , YMZ DbvZ AvbgvmbK nŕi AtbK Kg| cKÍ cŕqbKviŕi Gw Kŕi fiv fiŕe wPŠŕ fiebv Kŕi cKÍ WVRvBb KiŕZ nq| cKÍ WVRvBŕbi cŕŕgK Ae`vq AtbK, t`j v weKŕi i K\_v wPŠŕ KiŕZ nq| Mŕel Yvi djvdj, cŕZtekr t`tki ev`evqb djvdj ÷wW Kŕi cKŕi i WVRvBb Povŕŕi KiŕZ nq| Awŕ h\_v`Zvi Rb` t`vl µũ l mŕeav, t`j v me mgq ev`eZvi ubiŕL weŕkŕi Y KiŕZ nq| D`vniY `ŕac ejv hvq wKŕvi , YMZ gvB Dbqŕb wKŕŕi gvB Dbqŕb Acwi nŕh` Avi wKŕŕi gvB Dbqŕbi Rb` Kŕhŕix cŕKŕY Acwi nŕh` wKŕvi gvB Dbqŕbi Rb` DbZ gvŕbi cv` eB Gi weKŕi t`b| wKŠ`GB cv` eB tj Lvi Rb` tj LKŕi AZ`ŕŕi fiv cŕKŕŕi `i Kvi| AZGe wKŕvi , YMZ gvB Dbqŕbi cKÍ ŕZwi KiŕZ ntj cKÍ WVRvBŕb AvŕjvP` mel qe` Lyŕtq t`ŕL cKÍ WVRvBb KiŕZ nŕe|

### **cKŕi weibŕqvM**

**tŕŕZ weibŕqvM:** wKŕv cKŕi tŕŕZ weibŕqvM i Rb` cwi Kí bme`ŕi `ŕ g`wcs m`útkA` we`wi Z ÷wW cŕqvRb| Zvŕi meŕPbvq AvŕZ nq wbgŕ`kj x l wbgŕ`LiP| Awŕ mŕZvi w`ŕK j`ŕ` tŕŕL wK aiŕbi KvR nŕe thgb `vgx Bgvi Z hvi i ŕvYŕeŕY LiP Kg A\_ev Aŕ`vgx Bgvi Z BZ`w` m`vŕŕi ubŕZ nŕe| AvmevecĪ l hšcviZi e`vcŕi l G aiŕbi wmvve wKŕŕi cŕqvRb iŕtŕQ|

**tešv`K weibŕqvM:** RvZiq weŕkŕi ÁMŕi cĀv Ges AwfÁZv Kg\_vKŕj `yDcvŕq Zvi mŕŕkvab Kiv hvq| cŕŕgZ chŕB cŕKŕŕi gva`tg, w`ZiqZ Kvi Mix mnŕhvmZv Mŕŕi gva`tg| Dcvq `ŕi gŕa` cŕŕgv<sup>3</sup> ũB Avgvŕi Rb` fiv | GŕZ gvbe m`ú` ŕZwi nq, LiP Kg nq| wŕZiq ũ AZ`ŕŕi e`q mŕŕcŕŕi Zvici l weŕkŕi weŕkŕi cKŕi Rb` Kvi Mix mnŕhvmZvi cŕqvRb nq| D`vniY `ŕc Avgiv Rvŕŕi K\_v fivŕZ cwi | RvcvB Zvi

Āċ Ae GwĀKkb

ĪkĪ DbĀċbi Rb" nŪRvi nŪRvi ĩeċ kx BŪĀĪbqvi ũbċqvM KċiĪQj | ZvċZ RŪcvb ĀĊcŪċq jŪfŪevb nċqċQ- cĪġZ ĩeċ kx BŪĀĪbqviċ Ī mŪnŪth" RŪcvbx BŪĀĪbqviMY evĒĒ cĪċġY tċċċQ| ŪZxqZ ĩkĪ ċjŪ ũbLċċfŪĵe ĀZ ĀZwi nċqċQ| AZGe cĪR± ŪŪRvBb Kivi mgq cŪi KĪbŪĒċ ċi mKj Ū K ĩeċPbŪq AvbċZ nq| aŪv hŪK, Avġĵċ Ī ĪK Kiv cĪġRb? Avġĵċ Ī cĪġRb-

- KŪi MŪi mŪthŪMZŪ KŪċR j ŪŪtŪbri Rb" ĩeċ Īwi Z evĒĒvqb tKŠkĵ %Zwi |
- KŪi MŪi mŪthŪMZŪq ũbċqvRZ eĪĪĪeċMĪP mċ½ KŪhĪĪfŪĵe KŪR Kivi Rb" ċ kx ĩeċĪĀċ Ī cĪċġY Ū ċq hċ\_vchċ ċċi Mċo tZŪjŪ|

ZŪi cĪI PŪvŠĪŪŪRvBb Kivi cċĪĪĪĪ cĪċċċjŪi Reve LċR Ūei KĪċZ nċe:

- KŪi MŪi mŪthŪMZŪ ĪK AcŪi nŪh?
- RŪZxq ĩeċĪĀċ Īċ K cĪċġY Ū ċq ĪK D³ KŪR PŪj Ūb hŪq bŪ?
- KŪi MŪi mŪthŪMZŪ KŪhĪĪĪ ĩeċ ċvĪb tKŪb KŪhĪĪĪĪ Duplication bŪ tZŪ?
- RŪZxq ĩeċĪĀĪMċYi ġa" ċċċ KŪi MĪx ĩeċĪĀĪ ĪK evQŪB Kiv hŪq bŪ?
- ĩeċ kx KŪi MŪi ĩeċĪĀĪ ħŪ AcŪi nŪh"nq Zċe ZŪi ũbKU ċċċ KĪĪ ĪK PŪq ZŪ mġbŪ ĪfŪĵe ŪPŪZ Kiv nċqċQ ĪK?
- FbĒĪb mĪŪ KŪi MŪi ĩeċĪĀĪ ĩeċŪ LiċP ċċċ Lvi eĒĪ KĪċZ cŪċi ĪK?
- ċ kx ĩeċĪĀĪ Ī ĪK ċċċ cĪċġY ċċċ qŪ hŪq bŪ?

### **mĪċkvabġ-K cĪĪ ĪŪRvBb**

ĪċġŪ cĪĪĪ Ī mĪċkvab ev mĪŪĪĪĪĪ-K ŪŪRvBb Kiv AZ"ĪĪ Īġan KŪR| tKb cĪĪĪ mċj nj bŪ ZŪi KŪi Y LċR Ūei Kiv cĪġ KŪR| ġŪbċĪ Ī cŪiċċ cċĪĪcŪĪ eŠŪ KŪb KŪR| ZŪB th tKŠkċċ cĪĪĪ evĒĒvqb Kiv nċqċQj ZŪ cĪċġŪ ũbŪĪĪĪ AċċġŪ ĪĪL| mŪvĪYZ ĪK ĪK cĪZeÜKZŪi ġŪĪġ cĪĪĪ evĒĒvqb Kiv nċqċQj, tKb HĪĪ Ī hĪ\_v\_mġŪvĪb nqŪb GB cĪċċċjŪi Reve ĩeċĪĪ YŪZĪĪ hŪPŪB Kċi bġbŪqZŪi mŪċ\_ cĪeZĪmĪċkvabġ-K KŪR MĪY Kiv hŪq|

DĪvni YĪĪĪĪ ejŪ hŪq-

- GB mĪċkvabġ-K/mĪŪĪĪĪĪ cĪĪĪĪ Ī AskĪĪvi KŪiv A\_ev G ċċċ KŪiv DcKZ. nċeb?
- MYcĪŪiċYi ġŪĪġ RbMċYi ġZŪgZ mŪĪ|
- hċ\_vchċ ĪċġY-ĪK Lb cĪĪZ DĪĪĪĪĪ Rb" cĪċġŪĪĪ-K KŪR Kċi tŪl qŪ|



**civVĚi gj`iqb: 5.4**

**A) eú ubePbx cĕæ**

mıWK DĚi ubř`R gj-K AřiiıUřK eĚııqZ Kiab| (D`vniY: Avcbvi ubePZ DĚiıU ÓKŮ ntj GřK (K) eĚııqZ Kiab)

- 1/ cĕřı mbv<sup>3</sup>KiY, cĚıqb I ev`évřřbi meřPřq , iæZçY<sup>9</sup>KıR ıK?
  - K. cĕřıřı i `ıvıZııbařıY
  - L. cĕřıřı Rb` A\_<sup>9</sup>AcPq eivıKiY
  - M. cĕřıřı Avı\_Ř AcPq řıvaKiY
  - N. cĕřıřı Dřıřk`ıbařıY|
  
- 2/ Avıvř`ı ř`řki cĕřıřı řKıv aıřbi ıııbtqıM teık nq?
  - K. Avı\_Ř
  - L. teřııxK
  - M. řřřZ
  - N. KıvıMıx|

**Av) msıřřB DĚi cĕæ**

- 1. ıKřıv LvZ/GWřKkb řm±ı ÷ııııı gvařřg cĕřıřı ıbařıřıYi GKıı bğıv eYřıv Kiab|
- 2. msřkvabgj-K cĕřıřı ııWRıBb mıúřK<sup>9</sup>ıj Lıy|

**B) iPhıvj-K cĕæ**

- 1. cĕřıřı i Dřıřk`ıbařıY Ges cĕřıřı ııWRıBb mıúřK<sup>9</sup>Avřj vPbv Kiab|
- 2. ıKřıv cĕřıřı i řřřZ I teřııxK ıııbtqıřıMı ııııY ı`b|

mıWK DĚi: A) 1| N      2| M



**figKv**

th tKvb KvR mŋvte m=úv`tbi Rb" cwi Kí bv Acwi nvh<sup>9</sup> cwi emi K Rxeb t\_+K i iæ  
Kti ivólq chŋq chŠmKj KvR cwi Kí bvi gva`tg Ki+Z nq| cwi Kí bvi Rb" weifbæce<sup>9</sup>  
KgŋP MŋY Kiv nq| Avevi KgŋP ev`érvqb Kiv nq cKŋi i gva`tg| GB BDibUuŋK  
wbŋPi wZbuU cvŋV fivM Kiv nŋqŋQ| cvW, tj v nj :

- cvV- 6.1: cwi Kí bvi ce<sup>9</sup>cŋwZ
- cvV- 6.2: ikŋv cwi Kí bvi cŋwZ
- cvV- 6.3: ikŋv cwi Kí bv `wjj cŋqv I we`fiY



### **cwi Kí bvi m½ RvZ eḡetMP cġY**

cġY mKj mvdj`i Dm| ġY cwi Kí bvi cte©ġi Zi Rb` th mKj eḡeM©RvZ  
 \_vKteb Zv`iġ cġRbxq cġY cġvbi e`v KiġZ nte| GB cġY t`ġi  
 wFZti Ges wef`ġ nġZ cvti| Avgv`i t`ġ cġk t`Lv hvq gšYjġqi tj vKRbtK GB  
 cġY t`lqv nq Ges cġY tkġl e`jx nġq Ab` gšYjġq Pġ hvq| G aġbi  
 cġY eḡ-ġ\_©Qvor t`k l RvZi tKvb Kj`vY etq Avtb bv| AġK mgq ġY  
 Awa`Bġi i ġQymL`K tj vKġK cġY t`lqv nġv ġŠ`Ab`ġi Ziġi i tRvti Zviv Avi  
 G KivR Kivi mġeav tcj bv| G KivRi `vqZj AwcZ nġv Ggb tjvġKi Dci hvi tKvb  
 AvfÁZvB bvB| Zvi dtj ġY cwi Kí bvi ce©ġi ZġZ fġ μġ t`ġK hvq hv mstġvaġb  
 AġK mgq tbq| AZGe cġRbxq Kgġ`i l wiġqġUkb tUġs Gi ci Aek`B Zv`iġ  
 h\_vh\_fvte KivR j vMġZ nte|



### **cv#VvEi gj`vqb: 6.1**

#### **A) e# ubePbx c#æ**

m#WK D#i #b#`R gj-K A#i#U#K e#v#qZ Kiab | (D`vniY: Avcbvi #be#PZ D#i#U #K#  
ntj G#K (K) e#v#qZ Kiab)

1. #k#v cv# K#i bvi ce#U#Zi c#qvRbxqZv #K?  
 K. #`#ki j #` I D#i#k#i m#½ m#½Z ti#L cv# K#i b# c#vqb  
 L. #f#Z #e#b#q#M #bY# Kiv  
 M. AcPq #iva  
 N. K#v#qZ Uv#M#U m#WK c#vq DcbxZ n# q#|
  
2. Avgv#`i #`#ki cv# K#i bvi evi evi m#k#vab c#qvRb nq #Kb?  
 K. cv# K#i b#e`#`i Lvq#Lqv#xi Rb`  
 L. Z#`i mZ`Zvi Afv#ei `iab  
 M. ev`#vqbKvix#`i A#h#M`Zvi `iab  
 N. ev`#vqbKvix#`i mZZvi Afv#e#|

#### **Av) m#v#B D#i c#æ**

1. c#k#E#i i m#v#h` #Kfv#e Z` m#M# Kiv hvq?
2. cv# K#i bvi m#½ R#oZ e`#e#M# c#k#q#Yi c#qvRbxqZv #K?

#### **B) iPbvj-K c#æ**

1. #k#v cv# K#i bvi j #` #ba#Y m#ú#K#Av#j vPbv Kiab |
2. #k#v cv# K#i bvi c#vZgj-K Kvh#`i #eeiY #`b |

**m#WK D#i:** A) 1| K 2|



nře| GUVB řŕŕĚ ĩPũZKiY| ĩeřfbæDbq̄b Kvřhř Rb` ĩkřŕĳi GKũU RvZřq bũZ \_vKv cřq̄Rb| GB bũZB eřj ř ě Avřř`i AMũaKvři řŕŕĚ řKvũU? cũi Kř bvi řŕŕĚ ĩPũřZ Kivi mgq cũi Kř bvi ev`evqřb ĩK ařbi mgm`v I cũZeũKZv ř`Lv ĩřZ cřři Zvř mřřřře ĩPũřZ KiřZ nře Ges Zv ĩbimřbi e`e`v KiřZ nře| bũZi ĩřũĚřZ cũi Kř bvi řŕŕĚ ĩPũřZ nřj řũel`Z cũq̄Rřbi K\_v Gřm hřře| GB cũq̄Rb, řjv ĩbgřřc nřZ cřři:

- řmev cũĳbKvřř chřřř gũbe mřũ` | gũbe mřũř`i řKvũ meKř řbB| AZGe řmev cũĳbKvřř řhřM` gũbe mřũř`i K\_v řřeřZ nře Ges řmřře gũbe mřũř`i řhřMvũ ĩřZ nře Ab`\_vq meũKQy\_vKv mřĚř| cũKř ĩKQyř řřřřřře|
- ĩkřŕŕY Kvřři Rb` cũq̄Rbřq ĩkřŕŕ DcKiřYi řhřMvũ Avek`K| ĩK cũi gřY DcKiY cũq̄Rb Zv ĩbřřY KiřZ nře|
- řřřZ AeKvřřřř cũq̄RbřqZv ĩbřřY Kři KvR KiřZ nře| hř` cũq̄Rb řgvZřřeK mřřřřm mřřřřv bř \_vřK cũq̄Rb ĩbřřY Kři Zv cũi Kř břq AvřřZ nře|

### **j řŕ` ARřbi Rb` Kgřšř ĩbřřY**

Kvřřũř`řbi AřbK cřřř \_vKv `řřřeK| ĩKř` cũi Kř břřK AřbK, řjvi ĩřZi ř`řK meřřřř Dchřř Kgřšř evQvB Kři KvR KiřZ nře| ZvB cũi Kř bũe`řK ĩPřřř řře břř I Avřřc Avřřřřvřř gřřřř mřře` cřřř ĩPũřřZ KiřZ nře| ZvřřK e`mřũ`, gũbe mřũ`, A\_`mřũ`, mgřřři cũc`Zv ĩeřřPbřq řiřL meřřřř ev`emřřřZ Kvřřšřũũ ĩbavřřY KiřZ nře|

### **e`q cũřjb**

mũVK e`q cũřjbřbi Dci cũi Kř bvi mřřřř ĩbřřř Kři| h\_vh\_řře cũq̄Rb ĩbřřřři ci e`mřũ` I gũbe mřũř`i e`q cũřjb KiřZ nřq| Gi cũZ`KũUi Rb` cũq̄Rb meřřřK ev`emřřřZ gřř`řř| Zře gřř`řři DVvřřřř I j řŕ` řiřL cũřjb mřřřřvũ Kiv nřq| cũřjbřbi KvR řkl nřj cũi Kř bvi Rb` řgvũ cũq̄Rbřq Ař`ř cũi gřY Rvřř hřřq|



### **cv#VĒi gj`iqb: 6.2**

#### **A) eū ubePbx cĕæ**

m#K DĒi ubt`R gj-K Aŋi#U#K eĒiqZ Kiab | (D`vniY: Avcbvi ube#PZ DĒi#U ŐKŐ ntj G#K (K) eĒiqZ Kiab)

- 1/ Ae`v ubifcY #K?
  - K. cĕc`Zvi #fiĒZ tKvb #KQy#P#yKiYB nj Ae`v ubifcY
  - L. #tk#Y Kti tKvb #m#v#š#Av#B nj Ae`v ubifcY
  - M. cĕqvRb #P#yKiY cĕ#qvB nj Ae`v ubifcY
  - N. #kŋ# cĕZŏvb c#iP#j bvi Rb` cĕqvRb #P#Z KivB nj Ae`v ubifcY |
  
- 2/ c#i K#i bvi m#dj` #bf# Kti #K#mi Dci?
  - K. Dch# gvbe m#ú` #be#P#bi Dci
  - L. c#i K#i bvi tŋ# #P#yZKi#Yi Dci
  - M. h\_v\_#e`m#ú` #P#yZKi#Yi Dci
  - N. cĕqvRb#q #kŋ# DcKiY #P#ZKi#Yi Dci |

#### **Av) m#ŋ#B DĒi cĕæ**

- 1. gvbe m#ú#` i tKvb #eK# tbB e#stq #j L# |
- 2. j ŋ` AR#bi Rb` Kg#š# #Ki#c #bifcY Kiv hvq?
- 3. e`q cĕ#j b cĕ#qv D#j - L Kiab |

#### **B) iPbvj-K cĕæ**

- 1. Ae`v ubifcY #K e#stq #j L# |
- 2. #K#v#e c#i K#i bvi #e#b#ŋ# #P#yZ Kiv hvq?

**m#K DĒi:**

1/ M, 2/ L





ṽ Ae GWKkb

KgmP 2 km Drcv` tbi wwfbgvZv epx

KgmP 3 gjMi Lvgi ṽrcb

KgmP 4 grm Drcv` tbi cwi gvY epx

KgmP 5 mvgvRK ebvqb

KgmP 6 ṽ Drcv` b epx

GB KgmP<sub>2</sub> tji vi c0Z`KwU Dti k` ṽwi`<sup>2</sup> wvgtvPb | GB KgmP<sub>2</sub> tji v ev`evq tbi Rb`  
c0Z`KwU tK GKwaK cKti wfvRb Kiv hvq | thgb- wbtgZvi D`vni Y t` I qv nj |

cKí 1 t` tki DEivA t j D`Pd j bkj Mg Drcv` b epx Kiv

cKí 2 ewi kv t j av t bi wbeo Pvl cKí ṽrcb

cKí 3 XvKv kn t i Av t k cv t k wWg Drcv` b Kvi x gjMi dv g<sup>o</sup> ṽrcb

cKí 4 PAMg kn t i Av t k cv t k et j vi dv g<sup>o</sup> ṽrcb

cKí 5 w t j t U i nvl i AA t j i g<sup>3</sup> Rj vk t q gv Q Drcv` b epx Ki Y

cKí 6 w` b v Rcy t Rj vq mvgvRK eb w t m t e tgnMwb e t j ti v c Y Kiv

cKí 7 gmbKM t A` ṽ Drcv` b epx Ki Y

cKí 8 m v f i t i gv L b Drcv` b Kiv

GB f i t e c0Z w KgmPi Avl Zvq GK ev GKwaK cKí ṽK t Z cv t i | GB cKí<sub>2</sub> t j v  
gš y j t q i D t` i t M Awa` Bi K v R i i a K i t e b Ges c0 w g K Ae` v t t K ev` ev q b I  
g j` v q b Ges c0 q v R t b cie Z P c K i c v t q t Y i D t` i w ch S i Z v i v B K v R K i t e b |



### **cv#VvEi gj`vqb: 6.3**

#### **A) eũbe#Pbx c#æ**

m#WK DvEi vbt`R gj-K A#i#U#K e#v#q#Z Kiab | (D`vniY: Avcbvi vbe#PZ DvEi#U ŐKŐ ntj G#K (K) e#v#q#Z Kiab)

1. *cvi K#i#v#i `v#j K#i#v `Z#i K#i#b?*  
 K. *A#v#B#i#i g#v#c#i#P#j K vbt#R*  
 L. *A#v#B#i K#Z#R vbt#q#v#R#Z v#t`k# v#t#k#I#A*  
 M. *A#v#B#i#i G#K#R#b D#v#Z#b K#g#Z#P*  
 N. *A#v#B#i#i v#t#k#I f#v#t#e c#k#q#Y#c#Ő#B R#b#e#j |*
  
2. *t#c#Ő#v#i#g#s e#j#Z v#K t#v#t#S#b?*  
 K. *cvi K#i#b#v `v#j#t#j#i K#v#h#f#v#i#E#K v#e#f#v#R#b*  
 L. *cvi K#i#b#v `v#j#t#j#i g#j#v#e#l#q#e`#c#k#i#i i#f#v#i#Ő*  
 M. *cvi K#i#b#v K#v#R cvi P#j#b#v K#i#v*  
 N. *c#k#i#i `v#j#j c#Ő#Z K#i#v |*

#### **Av) m#v#q#B DvEi c#æ**

1. *K#v#h#f#v#i#P#I c#k#i#i c#v#R` v#K?*
2. *G#K#U#U c#A#e#v#i#R cvi K#i#v#i#j#q#i# k#Z#K#i#v 100 f#v#M#t#j#v#K#t#K v#k#v#q#Z#K#i#i t#Z#i#v#a#i v#t#q#G#i 3#U#U K#g#v#i#P#G#e#s c#Ő#Z#K K#g#v#i#P#i A#v#I Z#v#i#b 2#U#U c#k#i#i v#P#v#Y#Z K#i#b# |*

#### **B) i#P#b#v#j#-K c#æ**

1. *cvi K#i#b#v `v#j#j v#K#f#v#t#e c#Ő#q#b K#i#v#n#q?*
2. *cvi K#i#b#v v#e`#i#t#Y#i c#Ő#q#v#R#b#q#Z#v v#K?*

#### **m#WK DvEi:**

A) 1/ N 2/ K



**cW 7.1**

**bniZ I imxvšš' aviYv**

**Dt'ik**

GB cW tk'tl Avrcnb-

- bniZ uK ej tZ cviṭeb
- imxvšš'uK e'vLv Ki tZ cviṭeb
- bniZ I imxvšš'i cv\_R" ubi fcy Ki tZ cviṭeb

**bniZ I imxvšš' aviYv**

**bniZi aviYv**

mi Kvi temi Kvi x gva'ugK we`'ij tqi ukŋŋKt'i ubaŋŋ Z teZtbi kZKiv beYB fVM cŦvb Ktib| mgq, mgyR I t'k'ki Pwn`vq ukŋŋv gšy'v'iqi Dt'`v'pM mi Kvi msmt`i gva'tg tgṭb tbb temi Kvi x gva'ugK ukŋŋKt'i `vex Zv i teZtbi kZKiv beYB fVM ivŋq Znvaj t\_tK t\_lqv nte Ges GB g'tg'ubt`R Rvix Kiv nq| th mKj ukŋŋv cŦZŦvb mi Kvi KZŋ ubaŋŋ Z kZ'c'tY Kiṭe Ges H mKj ukŋŋv cŦZŦvbi ukŋŋKMY hviv thvM" weṭeW'Z nṭeb Ziv teZtbi kZKiv Avnk'fVM mi Kvi t\_tK cviṭeb| Guv GKwU bniZ| Gaiṭbi bniZ tK gj-bniZ etj| G, t'jv mnt'R cwi eZŦ Kiv hvq bv| gj-bniZi wfi eZ tZ cwi eZŦ thvM" bniZ tK AvAMZ bniZ etj|

**imxvš**

GB bniZ ev'`evqṭbi Rb" we'fbc'at'c c`tŋc MŋY Ki tZ nṭe| c`tŋc MŋY mgm'iv Avmṭe, H, t'jvi mgvavb Kt'ri AṭbK weK'i t\_tK DEg weK'i wU tetQ ubtq mgvavb w`tZ nṭe| GB DEg weK'i wU tetQ t'bl qvB imxvš|

**imxvšš' cKvi t'f**

**~'v'vix cxwZ**

mvavi YZ `BwU cxwZ tZ imxvšš' MŋY Kiv nq| Gi GKwU cxwZ n'tjv ^~'v'vix cxwZ Ges AciwU n'tjv MYZwšK cxwZ| ^~'v'vix cxwZ tZ GKKfvte imxvšš' MŋY Kiv nq| G cxwZ tZ Ab'vb`'t'i m' t\_ civg'tk' cŦqvRb t'bb Zvb Lq `ž imxvšš' MŋY Kiv hvq| Kv t'ri AMŋwZ mwaZ nq| Zte G aiṭbi imxvšš' f'z avšš' vK tZ cv t' | msukŋ Ab'vb'iv imxvšš' MŋY m' u'3 bv vKvq imxvšš' ev'`evqṭb cŦv'qvq AṭbK Am'vav t`Lv t`q, mgm'iv m'wŋ nq| Aa`biv AṭbK mgq Dt'`v'pM ubtq KvR Ktib bv| Zvi dt'j Kv t'ri MwZ gš' n'tq hvq|

**MYZwšK cxwZ**

MYZwšK cxwZ tZ msukŋ mKt'j GKm'v' e'tm mgm'iv M'fxi Zv Ab'v'eb Kt'i, ch'j v'p'bv I we'tk' t'Yi m'v'v'v' h' imxvšš' MŋY Kt'i | cŦqvR t'bb imxvšš' cwi eZŦ, cwi kvj b Kiv hvq| mKt'j i m' u'3 Zvi `iab mKt'j i g't'bv'fve R'v'bv hvq| mKt'j Dt'`v'pM ubtq Revew'w Z'vi wfi eZ tZ Kg'ŋ'v'v' b Ktib| dt'j Kv t'ri m'v'dj" Avkv'vj'f'c nq| G imxvšš' ~'Q Ges DEg n'tj I AṭbK t'ŋ t'Ĭ imxvšš' MŋY AṭbK mgq t'j t'pM hvq| Zvb ubaŋŋ Z mg'tq Kv h' m'v'v'v' b KóKi nq| uKš' msukŋ'iv Av'f'Á Ges K'k'j x n'tj we'fbc'at'bi `xNŋ'f'Zv cwi nvi Kiv m'ae| imxvšš' t'K Avevi cŦv'v'Z I t'gš'v'j K imxvšš' fVM Kiv nq|





**cW 7.2**

**ṁ×všlMḡtYi weḡP" weIq I c`ḡc**

**Dḡik**

GB cW tkḡI Avcb-

- ṁ×všlMḡtYi weḡP" weIq ḡtjv Dḡj - L KiḡZ cviḡeb
- ṁ×všlMḡtYi weIq bac`ḡc eYḡv KiḡZ cviḡeb|

**ṁ×všlMḡtYi weḡP" weIq**

h\_vmgḡq mWk ṁ×všlMḡtYi DciB th tKvb Kvhḡtḡi mvdj" ṁbfḡ Kḡi | ZvB ṁ×všlMḡtYi cḡeḡṁ×všl msvšl weIq ḡtjv cyLvbgḡLiḡc weḡkdY I chḡj vPbv Kḡi ṁ×všlMḡtYi KiḡZ nḡe| ṁ×všlMḡtYi weḡP" weIq ḡtjv ṁbgḡc nḡZ cviḡi |

- ṁbaḡi Z mgḡq GKwḡ gvḡ ṁ×všlMḡtYi ḡtbṁḡḡek Kiv|
- th tKvb ṁ×všl Rb" ṁbaḡi Z mgḡq tKej H weIqUḡZ ḡtbṁḡḡek Kiv| Gi dḡj Ašl kḡ NUḡḡe Ges mWk ṁ×všlMḡtYi weḡKḡK mṁvḡḡḡ Kḡiḡe|
- AZxZ, eZḡvb Ges fweI ḡḡi chḡj vPbv ḡvaḡḡ ṁ×všlMḡtYi|
- Dḡḡ mgmḡvi AZxZ, eZḡvb Ges fweI`Z ṁPšl Kḡi ṁ×všlMḡtYi Kiv AZ"vek"K| AZḡḡi AwfAZvi weḡk- IY I chḡj vPbv eZḡvbi ṁ×všlMḡtYi mṁvḡK| eZḡvbi ṁ×všl fweI ḡḡi cwi Kḡi vbi c\_ cḡ kḡ|
- ṁ×všlMḡtYi Rb" cḡqvRbxq mgq tbiqv cḡqvRb| ṁ×všl mḡ½ A\_ḡI mvdj" mḡUkḡ iḡḡQ| AZGe Ly`ḡz ṁ×všlMḡtYi Kiv DvPZ bq| Nb Nb ṁ×všlcwi eZḡ cwi ZḡR" nḡZ nḡe| ṁi ḡvḡḡḡḡ ṁPšl Kḡi ṁ×všlMḡtYi Kiv evḡbxq| mWk ṁ×všlMḡtYi dḡj mvdj" Avḡḡ AvZekḡmI ewx cvq| GB AvZekḡm Kgḡḡḡv evovḡ Ges Sḡk MḡtY Dḡy Kḡi |
- mgmḡvi ḡaḡ; Abḡḡi ṁ×všlMḡtY: mgmḡvi ḡaḡ; Abḡḡi ṁ×všlMḡtY KiḡZ nḡe| th mgmḡvi mgvḡv AvḡM cḡqvRb Zvi ṁ×všl AvḡM ṁḡḡ nḡe| ḡaḡ; Abḡḡi mgmḡvi mgvḡv nḡj mvdḡḡi ḡvḡi tcḡḡḡZ Ly teḡk mgq j vḡḡebv Ges nḡivḡ Kg nḡe|
- Aa`bḡ`i `ḡḡZ; cḡvb: cḡvMz ev iḡUḡv KḡḡRi `ḡḡZ; Aa`bḡ`i KḡḡR Acḡ Kiv hvq| Aa`bḡ`i cḡvḡḡvK KḡḡR `ḡ Kḡi ḡZvḡvi Rb" cḡvMz ṁ×všl`ḡḡZ; Zvḡ`i Dci tḡḡo ṁḡḡ nḡe|

**weḡP" weIqmḡ**

**ṁ×všlMḡtY cḡqv**

eZḡvb RMḡZ ḡvbḡi i Pṁv`v Amḡḡ| GB Pṁv`v ḡḡUḡḡvbi c×vZ LyB RvUj | GB RvUj Pṁv`v ḡḡUḡḡvbi Rb" mgvḡḡi meḡḡi mWk ṁ×všlMḡtYi cḡqvRbxqZv Ab`ḡKvḡḡ ṁḡḡai c`ḡc ḡtjv AbḡḡiḡYi ḡvaḡḡ mWk ṁ×všlMḡtY mṁRZi nḡZ cviḡi |







### **cvtVĒi gj`iqb: 7.2**

#### **A) eú ıbePbx cĕæ**

mıWK DĒi ıbt`R gj-K AᚦiıUᚦK eĒııqZ Kiab| (D`vniY: Aıcbvi ıbePZ DĒiıU ÓKÖ ntj GᚦK (K) eĒııqZ Kiab)

1. AZıZ AıfÁZvi ıetkdY ıKfıte ııı×ıśıMĕᚦY mııııth` Kᚦi?  
 K. AZıᚦZi ıedj Zı Ges mıdj` ııı×ıśıMĕᚦYi c\_ı` Lıq  
 L. ıetkd KMY AbgÖıYZ nq  
 M. ııı×ıśıMĕᚦYKııx bZb ııı×ıśıMĕᚦY Dᚦ`ıMx nb  
 N. ııı×ıśıMĕᚦYKııx ıepvi ıetePbv KiᚦZ cvᚦıb|
2. SıKı K\_ı ııı×ıśıMĕᚦYi mgq gᚦb ııLᚦZ nᚦe ᚦKb?  
 K. SıK ııı×ıśıMĕᚦY mııııth` Kᚦi  
 L. SıK ııı×ıśıMĕᚦY cÖZeÜKZıı mııó Kᚦi  
 M. SıKı `ıaY KgRZıPı ııı×ıśıMĕᚦY fᚦq cvᚦ  
 N. SıK me KıR ııııQᚦᚦı`q|

#### **Aı) msııᚦB DĒi cĕæ**

1. Rbkıı<sup>3</sup> I mıú`ᚦK ııı×ıśıMĕᚦYi mgq ıetePbvq AııᚦZ nᚦe ᚦKb?
2. mıWK Z\_ı I DcvĒ msMĕni cÖqvRbxqZı ıK?

#### **B) ıPııᚦj-K cĕæ**

1. ııı×ıśıMĕᚦYi ıeteP` ıel qıej x Aıᚦj ıPbv Kiab|
2. ııı×ıśıMĕᚦY cÖıııqı ıeeZ Kiab|

mıWK DĒi: A) 1| K, 2| K|

**cW 7.3**

**ım×všlev`évtqbi Kj v tKškj**

**Dt`ik`**

G cvW tk`tl Avıclb-

- ım×všlev`évtqbi Rb` e`e`ıct`Ki th Kj v tKškj MhY Kiv c`qvrB Zv eYDv Ki tZ cvi`teb|
- Askx`vix ım×všli mjev, tj v e`vL`v Ki tZ cvi`teb|

**ım×všlev`évtq b Kj v tKškj**

ım×všl MhY GKıU RıUj c`qvr| GKıU f`z ım×všl GKıU RıvZi veivU qıvZi KviY n`Z cıfı| Avevi mıWK ım×všli gra`tg RıvZ axı axı DbvZi Pig ıKl`ti DVtZ cıfı| AZGe ım×všl MhYKvixi A`bK , tY , YvšZ n`Z nte| , Y , tj v ıbtgrDtj L Kiv nj |

- ım×všl MhYKvixi Zvi ıbR`^MÜx`Z tj Lv covq PgrKvi thıM`Zv \_vKtZ nte|
- ıZıb ıbR`^Gj vKvq cıf`Z Avf`ÁZvi AvıKvix nteb|
- ıZıb Aek`B ıbi`tc`q nteb Ges Zvi gıfS mZZvi Afve \_vKtebı|
- ıZıb m`vPıY I veıfbagıvıeK , tYi AvıKvix nteb|
- ıZıb Aa`b`ı cıZ m`vkq Ges tmı c`Y nteb| Zv`ı c`Yv`bri gra`tg KvR Dt` vMx Kti Z`tZ m`qg nteb|
- ıZıb KvR Dt` vMx nteb Ges Drmıv ıbtq KvR Ki`teb|
- ıZıb DaY`Zb Ges Aa`b`ı Av`ı AR`b m`qg nteb|
- Aa`b`ı `qZv eıxı Rb` c`qvrBıq cıK`qıY w`tZ m`qg nteb|
- ıZıb ıbtRi Reven`ınZvi thıM` I `ıfıvızi AvıKvix nteb|

**ım×všl MhYKvixi  
ıYvejx**

**Askx`vix`Zji vfi`ÉtZ ım×všl**

DaY`Zb I Aa`b`ı m`t½ ıbtq e`tm cıvıw`ıZ, m`ú` , tj vKej m`ú`K`Avtj vPbv Kti th ım×všl MpxZ nq Zv n`tj v Askx`vix`Zji vfi`ÉtZ ım×všl MhY|

Askx`vix`Zji vfi`ÉtZ ım×všl MhYı A`bK , tj v mjev AvtQ| mjev, tj v ıbgıe`c-

**mjev**

- mKtj B ım×všl MhY m`ú<sup>3</sup> ZvB KvRı mKj`ıK m`ú<sup>3</sup> Kivi dtj h`ımgıq Kgııvıv`bri gıbveıE Mto DtV| KvR ıUg w`ıvıU Avtm Ges mn`ıR Kg`m`ıvıv`Z nq|

ᶿ Ae GWKKb

- Askx`vi#Zji wfiEtZ imxvšl MhY AvZwckm ewx Kti | AwfÁiv freavivi we`liY NUv#Z cvi#b Ges Kg AwfÁiv tR`ot`i KvQ t\_#K AwfÁZv mÁq Kti Kv#Ri gvb ewx#Z minvh` KitZ cvi#b |
- c0qvR#b wgtj wgtk imxvšli cwi eZB NUv#b hvq |
- Kg AwfÁ teik AwfÁ mKtj wgtkwgtk KvR Kti b weavq Ávb I Kg0qZv ewx cvi#q dtj KvR ZvovZvno mgv#b nq | c0vZ0vnbK L`wZ ewx cvi#q Ges mbyg c0vZ0vZ nq |
- fweI`Z imxvšl Mh#Yi wFZ `Zwi nq Ges gtbvej ewx cvi#q |

Askx`vi#Zji wfiEtZ imxvšl Mh#Yi wKQyKQyAm#eavl itq#Q | Am#eav, tjv wbg#e#c:

**Am#eav**

- fiv#Mi gv M#uvcvq bv A\_# teik fiv#fiv#Mi dtj At#K mgq Kg#úv`b wej w#Z nq | imxvšl MhYKvix KgRZ# `qZv nwm cvi#q | S#K Mh#Y fq cvi#q | mKj t#q#B mnKg# i Dci wbf#Kij n#q c#ob | mnKg# i m#½ c0qk Av#j vPbvq gZw#iva m#ó nq | Kv#m#úv`#b weN#N#U |

**Askx`vix imxvšl c0qM**

Askx`vi#Zji wfiEtZ imxvšl Mh#Yi mgq Kv#Z Da#Zb KgRZ#M#Yi fvgKv\_v#K gly, wKŠ`ev`evq#bi`wqZ; AwcZ nq Aa`b#`i Dci | Kg#úv`b m#Zl m#y i n#j t#u#WU cib Da#Zb KgRZ#M#Y | Avi Kv#m#úv`#b wedj Zv Avm#j hZ t`vl b`#Nvl Aa`b#`i | GgZve`vq Kv#Ri c0Z Abxn# Ges Awck#m Rb#q | ZvB Askx`vi#Zji wfiEtZ imxvšl Mh#Y mRvM m#PZb Ges wbi#c#q\_vKv evÁbxq | wewfbaeKvi#Y Askx`vi#Zji wfiEtZ imxvšl MhY c0#qv Kv#Ri nq bv | Kv#Y, tjv wbg#e#c:

ᶿ\_#Zv: wKQyKQyimxvšl MhYKvix ᶿ\_#Z Ges Amr | mZZv#K we`gv# tZvqv`v bv Kti Zviv Amr cš#i gva`tg A\_#AvZ#vr Kti | G t#q#B Kv#m#úv`b tgv#UB nq bv eis AcPq N#U |

**μwcy#c0vmbK cxvZ:** q#Zvi Aw#Kvix Da#Zb KgRZ#M#Y q#Zv at#i iv#Lb Ges imxvšl Mh#Yi Rb` Da#Zb KgRZ#`i Dci wbf# Ki#Z nq | dtj Kg#úv`b wej w#Z nq |

**Da#Zb KgRZ#`i e`w#MZ Av#Y:** wKQyKQyDa#Zb KgRZ#` Aa`b#`i tnq c0Zcbe Kti#b Ges memgq t`vl Á#U L#R teov# | G#Z Aa`b#MY wbi#f#m#vZ nb Ges Kv#Ri wej #`N#U |

**c0k#Yi Afve:** `qZv ewx#i gva`tg thvM`Zv ewx Ki#Z n#j Dch# c0k#Yi c0qvRb nq | wKŠ`Aw#Kvsk t#q#B t`Lv hvq gvV Kg# i tgv#UB fvj c0k#Yi e`e`v tb# | A\_P hviv tKv#v`b c0k#Y Kv#R j vMvb bv Zviv c0k#Y MhY Ki#Qb Nb Nb |

**mgqm#gv t#tb bv Pjv:** wewfbaeKvi#Y j vj wclZvi t`šiv#Z#i`ia# h\_v mg#q Kg#úv`b m#úv#anqbv | h\_vmg#q b#\_ tQ#o w`#j GUv NUvi m#e#v#b |



**cv`VvEi gj`vqb: 7.3**

**A) eU vbePbx ckae**

mivK DEi vbt`R gj-K AqjiUtk eEviqZ Kiab | (D`vniY: Avcbvi vbePZ DEiU OKO ntj GtK (K) eEviqZ Kiab)

1. mivK imxvS/MhY Aa`b KgRZi`i`qZv iKfite evx Kiv hvq?  
 K. Askx`vix imxvSli mjhvM cOvb Kti  
 L. KvRi mivK iaUb vbaY Kti v`tq  
 M. Reve v`vZvi e`e`v Kti  
 N. vevfbKvR Afq cOvb Kti |
2. Askx`vix imxvSli Amjev tKvU?  
 K. Aa`biv DaYzb`i`v bKU t`tK mjhvM MhY Kti  
 L. Aa`biv nxgb`Zvq tfvM  
 M. Avtj vPbvq gZveta va mjo`nq  
 N. DaYzbi v nxgb`Zvq tfvM |

**Av) msvB DEi ckae**

1. iK iK KvTY Askx`vix imxvSli KvRi nq bv?
2. `v`vZv iKfite KvR`uv`bvq AcPq NUvq?

**B) iPbj-K ckae**

1. imxvS/MhYKvixi ,Y,tjv Dtl Kiab |
2. Askx`vix imxvSli mjev,tjvi veeiY v`b |

**mivK DEi:** A) 1| K, 2| M|

**cW 7.4**

**imxvšlMhY cZeÜKZv**

**Dfík**

GB cW tkfI Avcwb-

- imxvšlMhY cZeÜKZv, tjv DfjL Kitz cvi teb|
- imxvšlMhY cZeÜKZv `hKifYi Dcvq eYv Kitz cvi teb|

cZwbqZ imxvšlMhYi KVR Pj tQ| wKš' me imxvšl mWKfite MpxZ nt"Q bv| newfbc cZeÜKZvi Rb" Gifc NUtQ| GB cZeÜKZv, tjv nj :

**Z" weaw:** Avgt`i t`tk mWK Z" cvl qv GK `jan KVR| mZZv Ges Review inZvi Afve AfbK tftB j ftYxq| hvi `ifb mWK DcvE cvl qv hvq bv| fz DcvE wetk- IY Kitz fz djvdj Avtm hvi wftZ imxvšl mWKfite tbl qv mæ nq bv|

**cZeÜKZv**

**cKftYi Afve:** imxvšlMhY Ges Zv ev`evqfbi Rb" th `ftZv I AvfÁZvi cQvRb Zv Avgt`i AfbK KgrZB tbB| GB bv `vKvi AbZg KviY nj ht`vchÿ cKftYi Afve|

**mZZvi Afve:** me gibly Amr bq GUv WK K\_v wKš' imxvšlMhYi tftB AfbK KgrZB `cYw Z ntq RmZi epEi `RjvÄjx t`q hvi dtj Kvhmúv`b WKGZ nq bv| RmZ I t`k GtZ ftZM' nq|

**Review inZvi Afve:** PvkZvRexf`i tftB Review inZvi e`v tbB| Gi dtj KZ` I `vqZjcvj tb Abxnv t`Lv hvq|

**DaiZb KgrZ`i mnthwMzvi Afve:** DaiZb KgrZMY AfbK mgq Aa`b mnKg`i mnthwMzvi Ktib bv| Zviv ems wbtq e`l| G aifbi tftB imxvšl mWKfite tbl qv ftZv Aa`bt`i tbB|

**AvBb Kibly mÚtK`Avfbi Afve:** Kvhmúv`fbi Rb" AvBb Kibly AbjiY Kti imxvšl wbtZ nq| wKš' AvBb Kibly mÚtK`AfbK KgrZPAA| Avevi AfbK AvBb Kibfbi cZ k`vixj bq| hvi dj kZtZ mWK imxvšlMhY AfbK tftB KgrZMY AcviM nb|

**A`ftZv I tLqvxcvbi Rb" kw`lweavfbi Afve:** `vqZji mft` mgm`v PwZ Kti mWK imxvšl wbtZ bv cvi tj A`ev fz imxvšl gva`tg RmZi ftZ Kitz tKvb kw`l weavb bvB| AfbK tftB mWK imxvšl MpxZ bv nevi GUv GKUv KviY| kw`l weavb `vKtj I `RbcZ I metj i tftB Zvi cQvM tbB|

**DĒg KvtRi Rb`** `Kwzi Afve: AþbK KgRZP AvtQb hviiv briþe PgrKvi Kvr Ktib|  
 wKS' Zviiv `Kwz. cvb br| GB `Kwzi Afve Zvt` i cieZPZ fij KvtRi Df`VM ubtZ  
 Ges mivK wvsvš'ubtZ ubiarmvvnZ Kti |

**Rbcwz:** AþbK mgq `Rbcwz mivK wvsvš'MthY cZeÜKZvi miv Kti |

**cFiekvjx` i A%a Pvc:** ¶lgZvaiiv AþbK mgq ubtRt` i `l`Dvvtii Rb` KgRZP` i  
 Dci Pvc miv Kti | hvi dtj Zviiv mivK wvsvš'MthY AcviM nq|

**cZeÜKZv` iKtiYi Dcvq:** wvfbæcZeÜKZvi ubKU bviZ `Kvi Kti mivK wvsvš'  
 ubtZ AcviM ntj RvNZ tkvb KgRZP¶ ¶lgv Kiþe br| ZvB KgRZP` iþK tgav, mZZv,  
 cAv, ubôv Ges KgZrciZvi gva'fg mivK wvsvš'ubtZ Zrci \_vktZ nþe|

cZeÜKZv` iKtiYi Rb` ubtge c`¶jc MthY Kiv thtZ cvti:

**Z` msMhKvix` i cK¶Y` vb:** Z` msMhKvix` i Z` msMhni tKškj Rvbn \_vktj Zviv  
 mivK Z` msMh Kitz cvite| Z` msMhni cþeZ` msMhKvix` i h\_vh\_ tUbs w'q  
 Z` msMhni `wqZjt` I qv cØqvRb|

**cZeÜKZv`  
 iKtiYi Dcvq**

**Z` msMhKvix` i mZZv:** AþbK mgq t`Lv hvq Z` msMhKvixiv h\_v`Dcvq Z` msMh  
 bv Kti Nti eþm gbMov DcvE `Zwi Kti| GUv LpB gvivZK| hv`I mivmvi mZZv  
 hvPvtqi tkvb Dcvq bvB Z\_vvc AZxZ tiKW,`mþvg BZ`vw`tk wfvE Kti Z` msMhKvix  
 ubeþb Kiv DvPZ|

**fij KvtRi Rb` cy`Z Kiv:** wvsvš'MthYKvix cØµqvq RvvoZ mivK wvsvš'MthYKvix Ges  
 ev`bqvqKvixK GI qvW¶ mivUdþKU t` I qv thtZ cvti |

**Aeþnjv I `wqZrxvZvi Rb` kw`li weavb:** Aeþnjv I `wqZrxvZvi Rb` tkD fþ wvsvš'  
 MthY Kijtj ZvtK wzi`z.Kiv I Avw`R kw`li weavb Kiv cØqvRb| Zvntj Ab`iv  
 `wqZrxv nþe br|

**Avw`R wqgKvby m`utK`cK¶Y cØvb:** A\_`tqi mvt` th mKj KgRZP RvvoZ Zvt` i  
 Avw`R tj bt`b, tUÜvi µq wµq m`utKZ AvBb Kvby fij fitþ Rvbn cØqvRb| ZvB  
 `wqZjt` evi cþe`msukó e`w³eMþK cØqvRbxq cK¶Y t` evi e`e`v Kiv Avek`K|

**mnKgp` i mvt` mnthwMzvi gþvfvie Mto tZvjv:** DaÝZb I Aa`b KgRZPv hv  
 GKmt½ wgtj wgtk GKwU mggbv cw`evi Mto tZvtj b Zvntj H t¶¶t mKj Kvr mnR  
 ntq hvq| `wqZj I ¶lgZv eÜb Kti mKj aitþi wvsvš'MthY I Kihþwv` b m`e nq|



### **cvVvĒi gj`iqb: 7.4**

#### **A) eú ubePbx cĕæ**

mWV DĒi ubt`R gj-K AŋiUtk eĒvqZ Kiab | (D`vniY: Avcbvi ubePZ DĒiU ŐKŐ ntj GtK (K) eĒvqZ Kiab)

1. AtbK KgRZP fĵ imxvšlbtql enij ZueqZ vKb vK KviŧY?  
 K. DaŸZb KgRZĒ`i mĵ½ AvZueqZvi `iab  
 L. fĵ imxvšli Rb` kvv`li weavb bvB  
 M. DaŸZb gnj tK Avv`R mĵear cŐvb Kti  
 N. KvR KtgP tMvRvqj w`tq|
  
2. KgRZĒ`i mWV imxvšl MĥtYi Abĵtj gtbvŧe Mto tZvjvi Rb` tKvbUv cĵqvRb?  
 K. t`tki wevfbaŧmĵbvŧi AskMĥtYi e`e`v Kiv  
 L. Nb Nb weŧ`k aġtYi e`e`v Kiv  
 M. AvvK teZb cŐvb  
 N. KvŧRi `ĶwZ.|

#### **Av) msvŋB DĒi cĕæ**

1. Z` weavU vKfvte imxvšlMĥtYi evar mĵo Kti?
2. Reiev` vnzv vKfvte mWV imxvšlMĥtYi mrvvŧh` Kti?
3. imxvšlMĥtYi AvBb Kvby Rvbvi cŐqvRbxqZv vK?

#### **B) iPhvqj-K cĕæ**

1. imxvšlMĥtYi cŐZeÜKZv, tjvi Zvqj Kv`Zvi Kiab|
2. imxvšlMĥtYi cŐZeÜKZv, tjv vKfvte `i-Kiv hvq?

**mWV DĒi:** A) 1| L 2| N

**cW 7.5**

**vej vPZ vMxvŠl**

**Dfík**

GB cW tkfI Avcib-

- vMxvŠlMhY vej v^NUvi KviY e`vL`v KiZ cvi`eb
- vMxvŠlMhY ZjvŠZ Kivi Dcvq,tjv m`utKAvtj vPbv KiZ cvi`eb|

**vMxvŠlMhY vej v^NtU tkb?**

h\_v mgtq mWk vMxvŠl MhYi DciB Dbqbgj-K KvRi mvdj` vbfP Kti| Avgt`i t`tk h\_v mgtq AtbK KvRi vMxvŠl MpxZ nq bv| dtj AtbK cKIB CwAZ mvdj` ARfb m`lg nq bv| vMxvŠl MhY vej t`f KviY AtbK| vbtgawKQymsL`K KviY Dtj - L Kiv nj |

- Dbqbkj t`tki cKvM I e`e`vcKMhYi Ab`Zg `enkó` ntjv vbtR`i ,iaZi evovbvi Rb` UuK UuK ARvZ t`vL`q bv\_ tdir cvv`bv| GKevi mterP `ti t`tk bv\_ tdir Avmtj vevfbævav vWv`q Avevi vMxvŠli Rb` bv`v`K h\_v`RvqMvq vbtq thZ Ah\_v AtbK mgq tj tM hvq|
- tK`ifZ cKvmbK cxvZ mKj vMxvŠli Rb` cKvmbi mterP `ti thZ nq| Aaxb` mKtjB mš`l`v`K f`z μv nq hvevi Rb`| hvi tcv`tZ mKj tUetjB Ah\_v mgq bó nq| MYZvŠK gb gvbmKZvi AfiteB mKj vMxvŠli `lgZv GK RvqMvq tK`ifZ|
- AtbK mgq vMxvŠl MhYKvix cKvM Ges vMxvŠl ev`evqbKvix e`e`vc`Ki gta` mgSvZvi Afite vMxvŠl MhY vej vPZ nq| vMxvŠl MhYKvix cKvmtKi nvZ `lgZv `v`K dtj vZvb e`e`vcK`K Zvi gZvbv`ti KvR Kivi Rb` eva` Ktib| Avb`QvKZ. Kvh`m`uv`tb vej v^NUv `vfmeK| AtbK t`f`f Zvi vevixZvUv NtU `v`K| e`e`vc`Ki Lvji tRvi tenk ntj vMxvŠl MhYKvix cKvM`K`K cvEv t`bbv| ZvZ Kvh`m`uv`tb vej v^NtU|
- SvKcY`vMxvŠl MhY e`e`vcK I cKvMKMY tKD Zpor vMxvŠl MhY AvMh cKvK Ktib bv| mKtjB SvKi Askx`vi tnvK Ggb g`bv`ve tcvlY Ktib|
- bZb mgm`v t`Lv v`tj Aa`b KgRZMY AvfAZv I cKvmbK cKv`f`Yi Afite vMxvŠl c`v`tb Mvogum Ktib Ges DavZb KgRZMYI Zrci nb bv| ZvB vMxvŠl MhY vej vPZ nq|

**vMxvŠl MhYi vej t`f KviY**



~`z Ae GWKKb

- weirfbē`fii KgrZpI Kgrvix`i gta` AvRKvj A%ea A\_©DcvRfbi cēYZv j 9f` Kiv hvq| g`°j iv mgm`v mgvatb Avmtj nqivibi ukKvi nq| tj bt`tb AfbK mgq hvq Ges um×všMh`Y wej s^NtU|
- ZvEJK ubqfgi mrf\_ ev`ēZvi m`úK`bv\_ vKvq um×všMh`Y wej s^NtU| gšYvj q Avā`Btii weirfbē`fii KgrZf`i bll\_ c`uqvRvZKi`Yi uba`ii Z mgq teta t`lqv AvfQ| uKŠ`ev`te Zvi Abjxj b nq bv| GKvi`Y um×všMh`Y wej s^NtU|
- AfbK t`f`T KgrZf`i h\_vmgf q Kvh`m`úv`b bv Kitj Reve w`inZvi m`y`ab n`Z nq bv| dtj um×všMh`Y wej s^NtU|
- c`kmfbi c`f`cvZgj-K AvPi`Yi Kv`Y AfbK t`f`T AthvM` t`vKt`i `vqZc`Y`ct` envj Kiv nq| Zviv mVK um×všMh`Y AcvM| Gi dtj Mlogum t`Lv t`q Ges um×všMh`Y wej s^NtU|
- AfbK mgq KgrZf`i Prci g`L ivLv nq| GtZ c`f`cvZgj-K um×vš Avtm Ges um×vš`cwi eZ`fbi c`uqvRb nq| G Kv`Y cKZ.um×všMh`Y wej s^NtU|

### **um×všMh`Y Zj ušZ Kivi Dcvq**

- bll\_ h\_vmgf q tLvjv Ges c`Z`K `fii KgrZf`i uba`ii Z mgfqi gta` h\_vh\_ gšē`mn bll\_ gy` Kiv|
- ht`vch`y c`k`f`Yi gva`tg KgrZf`i h\_vmgf q um×všMh`Y Af``l`Kti tZvjv|
- mgqgZ mVK um×všMh`Yi Rb` cij`Z.Kiv Ges f`j I wej u`Z um×všMh`Yi Rb` uZi `Z.Kiv|
- 9lgZv I `vqZ;netK``fZ Kiv| Kv`Ri\_ iaZ;ejS weirfbēKgrZf`i gta` 9lgZv fivM Kti t`lqv|
- Da`Zb I Aa`b KgrZf`i gta` f`j ešvenSi AeKvk bv ivLv|
- KgrZf`i AvZnekf`tm ejxqvb Kivi Rb` ubtRt`i gta` c`K`I Ab`vb` Dbqbgj-K KivR ubtq NbNb Avtj vPbv mfivq e`tm Avtj vPbvi gva`tg ubtRt`i gta` `^QZv m`p` Kiv| GtZ S`K Mh`Yi 9lgZv e`x` cvq|
- A%ea DcvR` eÜ Kivi Rb` th mKj t`f`T `f`vmetKi t`P`q AvZvii`<sup>3</sup> k`g w`tZ nq tmLv`tb AvZvii`<sup>3</sup> c`vii k`g`f`Ki e`e`v Kiv|
- mKj t`f`T Reve`w`inZvi e`e`v Kiv|



### **civřVěi gj`iqb: 7.5**

#### **A) eúibeřbx cřka**

mivK DĚi vřt`R gj-K AřiiUřK eřvřqZ Kiab | (D`vniY: Avcbvi vbeřPZ DĚi uU ŐKŐ ntj GřK **K** eřvřqZ Kiab)

- 1/ cřivřibK KivřR Reviř inZvi cřqvRb vřK?  
 K. KgřZřPř Kgřvřř`i gřa` mngvřZv RvMř nq  
 L. mivK vřvřřřMřřYi cřYZv cřj nq  
 M. Kgřvřř`řbi ř`vřv evřo  
 N. mgtřqi AcPq Kgřřbv hvq |
- 2/ KgřZřMY SřK MřřY řq civ tKb?  
 K. Reviř inZv KiřZ nqbv etj  
 L. Kgřvřř`řb cřqvRbřq AvřřřZvi Avře ntj  
 M. Avřřekřřmi Avřře  
 N. KgřZřřvKvřv etj |

#### **Av) msvřřB DĚi cřka**

- 1/ Avřvř`i ř`řk vřvřřřřř řřgZv GK RvqMřq tKř`řřZ tKb?
- 2/ KgřZřř`i gřa` SřK MřřYi řřgZv vřřřře evřř civq?

#### **B) iPbřgj-K cřka**

- 1/ vřvřřřřMřřY vřj ř`Nvři KviY, řj v řj Lř |
- 2/ vřřřře vřvřřřřMřřY Zj vřřř Ki v hvq Avřř vPbv Kiab |

**mivK DĚi:** A) 1 | L, 2 | M |



**cW 8.1**

**ıKŃıv cKı cŮqb**

**Dřık**

GB cW řkřl Aırcıb-

- cKı cŮqřbi j Ńı ıK ej řZ cvi řeb|
- cKı ev`evqřbi řı , řjv (Phases) mřúřK<sup>©</sup>Avřj vPbv Kı řZ cvi řeb|
- cKı `ıj j `Zıı i Dřık Ges cKı ři i vel qe`mřúřK<sup>©</sup>vL`v ı řZ cvi řeb|

**cKı cŮqřbi j Ńı**

ıeřkřl Dřık ıbřqB cKı cŮqb Kıv nq| cKı cŮqřbi gj- Dřık , řjv ıbřgřDřj ı Kıv nj :

- cKı Abřgv`bvř`Lmov `Zıı Kři gj`vqřbi Rb` A\_`cŮvb I ımřvřř MřıYKıvıř`ı ıbKU`ıLj Kıv|
- KıvřřZ djvdj jvřfi Rb` h\_v mgřq cKı `ıj j `Zıı Ges ev`evqřb cııZı ıe`ııı Z iřcřıLv `Zıı Kıv|

thřnZzcKı ev`evqřbgřı ZıvB Gi cŮıZ nře ev`egřı| cKı ev`evqřb mgq mřřcřř Gi Rb` cŮqřRb cřřZ Ař\_P| cKı ev`evqřb mřıvıYZ ıZb řřı (Phases) nřq \_ıřK| řı , řjv nj :

- ıeıbřqřM ce<sup>©</sup>-ıııV
- cKı `ıj řj i Lmov `Zıı: Dřık ıbařřY, Dcv`vb hıPıvB evQıvB, e`q Ges e`e`ırcbv
- ıe`ııı Z Kıvı Mıx `ıj j `Zıı: `ırcbvı `ıj j `Zıı I bKřıv `Zıı, hřřcıvZı Zııı Kıv `Zıı, řUŮıřıı ıbqgKıvıı I Ab`ıv` AvııııK KıMR cř `Zıı, cŮqřRbııq AvıBb Kıvıřbi Lmov `Zıı, cıeZııcıı Kıvııı avıYı, ıe`ııı Z ıKŃıvıııg `Zıı Ges ev`evqřb ıbř`Rbv, BgıvıZ `Zıı i cŮqřRbııq bKřıv `Zıı, Avııeırcřřı řUŮıı I Avř`k cŮıv, hřřcıvZı řUŮıı I mıeııvı, řjvKej I cŮqřRbııq Rbej ıbeıPb cııZ I ıbeıPb|

**cKı `ıj j /ıKřııı tKb `Zıı Kıv nq Ges Zıı vel qe`ıK?**

cKı `ıj j AMřııııgZıı vřııEřZ Dřık nıııı Kıvı Rb` `Zıı Kıv nq| cKı `ıj j cŮYZııMY AřbK cŮkře mřııııı nb| cKı , řjv nřZ cıřı-

- cKı ři i gıv`řg řıııe cŮZŮvb Mřo řZııv nře A\_ev ıeıřbřeřřřıı th DbııY mııııZ nře Zıı ıK `ıN<sup>©</sup>vııı nře?
- Avıı\_R ıeřePbııq cKı ııı `ıN<sup>©</sup>vııı nře ıK?

$\bar{c}$  Ae GWKkb

GB mKj cĀkĀ Reve f`evi Rb` cĀKĪ `uj tĵ chPß Z` mibteikZ Kiv Avek`K/  
Z` tĵvi wfiĒ nte Av`vigmRK| cĀKĪ i mvgmĀK ifcĪLv, gj-ab, m`te` djvdj,  
Avu`R e`q e`e`vcbv BZ`w` mibw`Ā vKte| cĀKĪ `uj tĵ ubtgm<sup>3</sup> nel q, tĵv vKte:

**1. thš<sup>3</sup>KZv**

- 1.1 mve-ṭm±tĪ i eZgĵb Ae`v
- 1.2 mi Kvix bwiZ
- 1.3 mgm`v Ges Pwv`v

**2. DĪĪk`**

- 2.1 DĪĪk`i eYĪv
- 2.2 cĀKĪ i mvgmĀK ifcĪLv
- 2.3 cĀKĪ tkĪl m`te` djvdj

**3. cĀB mivh`**

- 3.1 e`e`vcbv mspuvšĪ
- 3.2 fwiZP nvi/Drcv`b
- 3.3 wkĀvµg/Kivh`ej
- 3.4 c×wZ
- 3.5 Ae`vb
- 3.6 ÷vd
- 3.7 Ab`vb`/Avb\w/2K

**4. cĀKĪ i th th KvRi Rb` mivth`i cĀqvRb**

- 4.1 ubgĀY KvR (vb l e`q gvb)
- 4.2 Avmeve cĪ, hšcwiZ l Ab`vb` `ē`w` (Zwĵ Kvmn)
- 4.3 KwĪ Mix mivth` Ges LiP
- 4.4 cĀKĪ i cĀqvRbxq e`w<sup>3</sup>eĀMP cĀkĀY (cĀkĀY e`q)
- 4.5 Ab`vb`
- 4.6 LiĪPi mivsk (LiĪPi mivsk tUvej)

**5. cĀKĪ i cĀkumb**

- 5.1 e`e`vcbv l cĀqv
- 5.2 cwi exĀY l gj`vqb
- 5.3 ev`ēvqb wmw/Dj

**6. m`te`Zv**

cĀKĪ ev`ēvqtb tĵvKej me mgq cwi eZB Kiv hıqbv Ges Zv wK bq| GĪZ cĀKĪ i KvR  
ĀvZMĪ` nq| ZvB tĵvKej ubeĀtb Lg mZKZv Aeĵ`b KiĪZ nte| jĀĪ` ivLĪZ nte  
`RbcĀzi graġg AĪhvM` e`w<sup>3</sup>eM`thb cĀKĪ tXvKĪZ bv cĪĪ| cĀKĪ `uj j` Zwi i mgq  
Lg mivearvZv Aeĵ`b KiĪZ nte thb GĪZ AvZwi<sup>3</sup> Dcv`vb mieivn bv nq Avevi  
cĀqvRbxq Dcv`vb ev` cĪo bv hıq| cĀKĪ `uj j` ZwiĪZ cĀZw Dcv`vĪbi Rb` fıj fıte



### **cwi Kí bwe` t` i thM`Zv**

- A\_ḡmZ/ḡḡvmeÁvb h t\_ó AwfÁZvmn|
- BstíuR Ges gvZfv.l vq ej v l t j Lvq `ḡ|
- `t j KvR Kivi Rb` D t` vMx n l qv|



### **cvtVvĚi gj`vqb: 8.1**

#### **A) eú ubePbx cĚe**

mMVK DĚi ub t` R gj-K Aḡi u t K eĚvqZ Kiab| (D`vniY: Avcbvi ubePZ DĚi u ŐKŐ ntj G t K (K) eĚvqZ Kiab)

1. cĚí `ḡ j tKb `Zwi Kiv nq?  
 K. AMḡvqZvi wfvĚ t Z D t` k` nvmj Kivi Rb`  
 L. cĚí m`ú t K`Rbmvari t Yi mMVK avi Yv t` evi Rb`  
 M. cĚí m`ú t K`mi Kvi t K eSv t bvi Rb`  
 N. cĚ t i dj v dj m`ú t K`m th v Mx cĚ Zŏv t K eSv t bvi Rb`|
2. cĚí `ḡ t j mavi YZ kZKiv KZfvM cwi eZ t bi e`e`v i vLv hvq?  
 K. kZKiv 40 fvM  
 L. kZKiv 30 fvM  
 M. kZKiv 20 fvM  
 N. kZKiv 10 fvM|

#### **Av) msḡḡB DĚi cĚe**

1. cĚí mdj nevi kZ t j v ḡ L y|
2. cĚí Lmov `Zwi t Z ḡK ḡK Dcv` vb cĚ qvRb?
3. cĚ t i AMḡvZ m`ú t K`K f v t e avi Yv j v f Kiv hvq?

#### **B) iPbvj-K cĚe**

1. ḡḡv cĚí cĚ q t bi j ḡ t j v Av t j v Pbv Kiab|
2. cĚí `ḡ j cĚ YZv ḡK ḡK cĚ k e m`ḡ x b n t Z cv t i b|
3. cĚí cĚ q t bi ḡ t j v e v L v Kiab|
4. cĚí `ḡ t j ḡK ḡK v Kv cĚ qvRb?

mMVK DĚi: A) 1| K, 2| N|

**cW 8.2**

**ukv`v cK`i A\_`qb**

cK`i mVBtKtj i cU`tgB Avtm A`\_P mUvb| A`\_P Drtmi mUvb cvl qv tMtj B cK`i i KivR i i`anq| cK`i i A\_`qb Af`šlixY Ges ewn:Dr`tmi gva`tgB Kiv n`tq \_v`K|

**D`i`k`**

GB cvW tk`l Av`cib-

- cK`i ev`bvqtb A`\_P weifbaDrm m`u`K`ej tZ cvi`teb|
- ev`RUvni tm`m`l bb-ev`RUvni Dr`tmi cv`R`" m`b`f`c`Y Ki`tZ cvi`teb|
- ewn:A\_`qb Drm m`u`K`ej tZ cvi`teb|

**A\_`q`tb i RvZxq Drm**

Db`q`bkj t`k`\_tjvi Av`KvskB cK`i A\_`q`tb i LiP enb Kti \_v`K| mKQymL`K cK`i hvi cU`q c`jiv A\_`B RvZxq ev`RU t\_`tK Avtm| D`vniY`f`c gva`ugK `ti Qv`I`x`i Dcey`E cU`vb cK`i, m`b`a`m`i Z temi Kviv gva`ugK ukv`v cK`i, Kgv`m`k`q`y Bb`w`i`U`D`U Db`q`b cK`i i A\_`qb evsj v`k miKvi Kti| Avevi gva`ugK ukv`v Db`q`b cK`i, D`P gva`ugK ukv`v Db`q`b cK`i Ges Gai`tbi Av`tiv A`tbK cK`i evsj v`k miKvi Ges m`v`v`h`K`vix ms`v` thgb Giv`q`vb tW`f`j`c`tg`U e`v`st`Ki thS`\_D`\_v`M A\_`q`Z n`tq \_v`K| Avevi A`tbK cK`i m`u`Y`P`f`c we`k`x m`v`v`h`l P`tj | thgb P`v`u`c`j`i bi l`tq miKv`i i A\_`q`K`tj P`v`j`Z cK`i biW|

GB cK`i \_tjv cwi P`v`j`bvq cK`i me`f`i b`v`b`v i K`tgi Av`v`R` Am`v`e`avi m`u`x`b n`tZ nq| teZb Kiv`v`t`g`v, `e`" g`j`" ew`x n`tj Avevi g`v`i`u`m`i`Zi Rb`" Uv`Kvi g`v`b` K`tq tMtj cK`i \_tjv Av`v`R` Am`v`e`avi m`u`x`b nq Ges cU`q cU`Z eQi cK`i m`m`v`e`c`I` c`b`m`e`P`b`v` Ki`tZ nq| c`b`m`e`P`b`v`q mek`v`j` cv`R`" cU`q`B cwi j`v`v`Z nq|

A`tbK t`k` cK`i h\_`v`m`g`t`q m`g`v`i`te cwi P`v`j`bvi Rb`" RbMY U`v`\_` cU`vb Kti \_v`Kb| Aek`" thL`v`tb ukv`v i nvi Ges m`p`Z`b`Z`v` teuk` tm me t`k`B Zv m`e`| Db`Z t`k`\_tjv uk`i, ew`v`v`R`"K Ges ukv`v Db`q`b cwi K`i`bvq A\_`m`v`v`h`" i`tq \_v`K| tmj c`tnj`c` (Self Help) t`g`\_t`W A`tbK cwi K`i`bv P`v`j`y`K`iv h`v`q| Av`g`v`i` i t`k` cU`ugK me`"ij`q`\_tjv tK`v`b GK`U`v` m`v`v`" cwi g`v`Y Db`q`b m`v`ab` Ki`tj miKvi cK`i i gva`tg ev`K`U`v` Db`q`b Kti \_v`K| Av`g`v`i` i gva`ugK me`"ij`t`q`i Db`q`b I` K`v`g`D`i`b`U` D`\_v`M` c`i`e`Z`Z` miKvix m`v`v`h`" eZ`g`v`b Ae`v`q` Db`Z| Z`te` GL`v`tb` eo` Am`v`e`av` n`tjv miKvix m`v`v`h`" t`c`t`j` K`v`g`D`i`b`U` Z`v`i` D`\_v`M` eU` Kti i`tq miKvi m`b`f`P` n`tq c`to| Av`i miKvix c`x`v`Z`Z` cK`i i gva`tg me`"ij`q` Db`q`b g`v`i`v`Z`K` Am`v`e`v`i` Rb`" cU`q` cU`Z` t`q`i`T` Av`k`v`b`j`f`c` dj` cvl`q`v` h`v`q`b`v`| c`w`\_e`x`i` Db`q`b`k`j` A`tbK t`k` cU`B`t`f`U` G`U`v`i`c`B`R` ukv`v`i` Db`q`b` m`n`R` k`t`Z`"F`Y` i`tq \_v`K| m`d`i`j`c`v`B`t`b` G`i`f`c` e`e`-v`i` c`P`j`b` i`t`q`T`Q`| D`P`v`k`v`v` Ges ew`E`g`j`-K` ukv`v`i` Rb`" Av`f`šlixY A\_`qb` teuk`i` f`i`M` t`q`i`T` m`e` nq`bv`| G`\_tj`v`i` Rb`" LiP` teuk` Avevi h`š`c`m`Z`i` LiPi` teuk`|





The UNDP, 1958 mvtj cZwZ nq| GB cZovb Kwii Mwi mnthvMZvi Rb` mnvnh`/FY w`tq\_vtK| cU\_xi abx t`k\_s,tjv t\_tK Hw`OK mnvth` G cZovb Ptj |

The UNICEF, cU\_xi cZeUx iki t`i mnvth`i Rb` 1946 mvtj cZwZ nq| Rb`^r`, mjcqcwib, cyb, cU\_vgK w`K`v BZ`w` i Dbq`bi Rb` GB cZovb mnvnh`/FY w`tq\_vtK|

The WFP RvZmsN I Gd.G.I (FAO) 0viv 1961 mvtj Lv` mgm`v mgvavtbi Rb` cZwZ nq| GB cZovb Lv` mgm`v mgvavtbi Rb` cK` Ab`yb w`tq\_vtK|

The UNESCO RvZmsN cZovb| m`m` t`k\_s,tjvi mnthvMZvq cZwZ Ges m`m` t`k\_s,tj vtK mnvnh` c`vb Kti\_vtK| w`K`v Dbq`b mspvsl`evcti t`k\_s,tj vtK mnvnh` Kti\_vtK|

RvZmsN D`j w` LZ cZovb\_s,tjv Qvon Ab`vb` Av`iv w`K`vAvsRwZK cZovb w`K`v Dbq`b FY w`tq\_vtK| G\_s,tjv nj -

- The World Bank or International Bank for Reconstruction and Development (IBRD), (1946)
- The Regional Development Bank, (1960)
- The European Development Fund (EDF), (1957)
- The multi/ /Arab group.

RvZmsN ms`v Ges wekpe`vs`Ki FY c`vb kZ`GKB ai`bi | kZ`\_tjv wbgie`c:

- wekps`v\_s,tjv wekpe`vs`Ki gva`tg FY c`vb Kti
- wek`A\_w`wZK evRvi t\_tK GB A\_`msMh` Kiv nq|
- wekpe`vsK A\_`evRv`i i tPtq mnR kZ`FY t`q
- GB mKj ms`v t\_tK MpxZ FY tdir t`evi mgq 15-20 eQi, tMh` w`w`i qW 3-5 eQi |

w`K`vKQyms`v thgb I DA FY t`q abx t`kmg` t\_tK Ab`yb wntmte c`B A\_`\_tK| GB FY m`y gy` w`Ks` evrmwi K 0.75% m`v`f` Kwgkb w`tZ nq| tKej Mixe t`k\_s,tj vtK IDA FY w`tq\_vtK|



## **cvWĒi gj`iqb: 8.2**

### **A) eū ubePbx cĕæ**

mWk DĒi ubt`R gj-K AŋiUtk eĒvqZ Kiab | (D`vniY: Avcbvi ubePZ DĒiU ŐKŐ ntj GtK (K) eĒvqZ Kiab)

1. wkŋv Dbqtb wek'e'vsKi FtYi cui gvY kZKi v KZ?  
 K. -5%  
 L. -6%  
 M. -7%  
 N. -8% |
  
2. wek'e'vsKi FY tdir t`evi tMh wci qW KZ eQi?  
 K. 9-11 eQi  
 L. 7-9 eQi  
 M. 5-7 eQi  
 N. 3-5 eQi |
  
3. CDB Gi ctjv A\_ŋK?  
 K. Caribbean Development Bank  
 L. Canadian Development Bank  
 M. Common Wealth Development Bank  
 N. Californian Development Bank.

### **Av) msŋB DĒi cĕæ**

1. UNDP Gi Fund tKvŋtK Avtm?
2. UNDP Gi KVR ŋK?
3. UNICEF ŋK KviŋY cŋZŋŐZ nq Ges eZŋtb ŋK ŋK KVR KiŋQ?

### **B) iPbvj-K cĕæ**

1. cĕŋ A\_ŋq b cŋŋqv Avtj vPbv Kiab |
2. wkŋv Dbqtb wek'e'vsK ŋKfvte minvth` Kti \_vŋK?

**mWk DĒi:** A) 1 | K, 2 | N, 3 | K |

**cW 8.3**

**uk`Iv cKÍ FYMÄY Pæ³ce©Avtj vPbv**

Dbqb cKÍ ev`évqtb ubtRt`i cØqvRbxq A\_©msKžvtbi ¶Igzv bv \_vKtj wewfbaems`v t\_#K Zv MhY Kti Dbqb cKÍ ev`évqb KitZ nq| FY MhYi Rb` cØqvRbxq KvMR cÍ`Zwi Kti FY`vZvt`i mv#\_ GKU mg#SvZvi Pæ³ KitZ nq|

**Dfík`**

GB cW tk#I Avcb-

- FY MhY Pæ³ i cØqvRbxqZv e`vL`v KitZ cvi#eb|
- FY MhY cØqv Avtj vPbv KitZ cvi#eb|
- Pæ³ i Rb` uk`fv#e cØwZ MhY KitZ nq Zv ev#tq ej#Z cvi#eb|
- Pæ³ i tKŠkj`\_tjv eY#v KitZ cvi#eb|

**tKb Pæ³ Kiv nq?**

AblyZ Ges Dbqbkxj t`k`\_tjv Avakvsk mgqB At\_# Urvv tcvotb \_vtK| tKvb eo cKÍ MhY KitZ ntj Zvt`i At\_# Rb` mek!ms`v, AvÄij K ms`v A\_ev t`k me#ktli ubKU t\_#K FY MhY KitZ nq| FY MhYi c#e©FY MhYKvix Ges `vZvi `g#¶i GKUv mg#SvZvq Avm#Z nq| GB mg#SvZvB nj FY Pæ³| Pæ³ i `vjj FY t`evi c#e©gj`vqb Kiv nq| cØqvRb#v#t Pæ³ mgq m#tkvab, cwi#Z# Kiv ntq \_vtK| GB Pæ³ i Rb` `g#¶iB FY c#t` \_¶i KitZ nq| Pæ³ cÍ` \_¶iZ nevi ci cKÍ Ab#gv`b cvq|

**FY MÄY cØqv**

w#tc- vt#U Ges tckvMZ ubtMvmtqUi MY Rv#bb FY MhYi Rb` me#P#q eo vbqŠK ntjv ubtMvmtqUs ¶Igzv Ges ch#B Z\_` mieivn| FY MhY hLb`i i#nq ZZ¶#Y Dfq cvU© h#\_ó webtqvM Kti tdtj#Qb| GKv#Y Dfq M#CB mg#SvZvi tPón Ktib| ZeyAtbK t¶#t gZ cv`R` t\_#K hvq| GB gZ cv`R` Avtj vPbv gva`tg vimb Kiv nq| FY MhYi Rb` Lmov cKÍ tcdigv`Zwi Kti gj`vq#bi Rb` `vZv tMv#K w`#Z nq| Zviv cy¶vbg#¶fv#e Zv hvPvB Kti gš#` Ktib| MhYvZvK tmB gš#e`i mek#m#h#M` Reve w`#Z nq| Reve`\_tjv Aek`B ntZ n#e-

- cKÍ i Dfík`i m#½ m#wZcY#
- Dfík`\_tjv Dcv#Ei Dci wfv#E Kti m#wZcY#Ges ev`é me#k- IYvZ#K ntZ n#e|

G e`vc#ti FY MpxZv t`tki Av#\_R Ae`v, mvgv#RK w`iZv BZ`w` me#k- IY Kiv nq| ubtMvmtqUs Zwi#Li c#e©fvj cØwZ L#B mnvqK| fvj ubtMvmtqUs Gi c#e©vbtg#e we#q`\_tjv Aek`B me#Pbvq Av#Z n#e|

- cKÍ w cy¶vbg#¶fv#e Rv#v|
- cKÍ i gva`tg uk` Pvl qv nt`Q Zv we`vwi Zfv#e Rv#v|

~č Ae GWKkb

- FY`vZv tMvôxK fij fite Rvbr/
- my`i wbtMvmtquls Gi Rb` mæte` mKj cti`i AbymÜvb Kiv/

wek/mfirRbfite wbtMvmtquls A\_©GB bq th GKRtbi nvi AvtiKRtbi wRZ/ mv\_Ř wbtMvmtqmb gvtb mv\_Ř mgtSvZvi Pw³ |

### **wbtMvmtquls tKŠkj**

wbtMvmtquls tKŠkj wbtq ešRvq, cwi Kí bme` wwtcatgUiv AþK MteIYv KtiþQb/ wbtgæ tKŠkj ,tjv meRb KZŘ` xKZ/

- ci`úþii Dci Pvc cŃqvm
- Askx`viþK my`i fite ešvi cŃPón tbl qv
- MhYþhvM` fite Kvþi wYi wwbq mæúþK`mgtSvZvq Avmv
- wbtMvmtquls Gi mgtSvZvq tcŠQvi Rb` axi w`i nI qv
- gZ wwbgtqi gva`tg ci`úþiþK mšb Kiv
- wbtMwF dj`vqK cŃPón cwi nvi Kiv/

wbtMvmtqmb mæúbænl qvi A\_©htjv FYMhXZv t`k cKí MhY I ev`évtþbi Rb` A\_© cŃB mæúþK`wDZ/



**cvtVvEi gj`iqb: 8.3**

**A) eú ubePbx ckae**

mivK DEi ubt`R gj-K AqiuUtK eEviqZ Kiab | (D`vniY: Avcbvi ubePZ DEi uU OKO ntj GtK K eEviqZ Kiab)

1. FY ubtMvmtqmb gvtb uK?  
 K. FY`vZv I FY MhxZvi mv\_R mgtSvZvi Pz  
 L. FY MhxZvi t`q qv Kiv  
 M. FY`vZvi t`q qv Kiv  
 N. FY`vZv I MhxZvi evitMBubs|
2. ubtMvmtqmb m`ubanevi A\_ qK?  
 K. `vZv t`tki vWtcatguUK Rq  
 L. MhxZv t`tki vWtcatguUK Rq  
 M. MhxZv t`k cKí ev`evqtb A\_ c`B m`utK`bwDZ  
 N. MhxZv t`k cKí ev`evqtb ubwDZ|

**Av) msuqB DEi ckae**

1. FY ubtMvmtqmtbi tKSkj ,tj v uK?
2. FY ubtMvmtqmtbi c`vb ubqsk uK Ges tKb?
3. FYPz ej tZ uK tetSb?
4. cKí KLb Abtgv`b cvq?

**B) iPvuj-K ckae**

1. FY MhtY Pz i c`qvRbxqZv e`vL`v Kiab|
2. FY MhY c`uqv Avtj vPbv Kiab|
3. FY ubtMvmtqmb Gi Rb` uK fite c`vZ ubtZ nq?

**mivK DEi:** A) 1| K, 2| M|

**cW 8.4**

**ᚰKᚦv cKí e'e-vcbv**

ᚰKᚦv cKí ev-évtb meþtq eo meþP" űelq ntjv cKí e'e-vcbv| cKí e'e-vcbvi mvt\_ cwi exᚦY I gj-vqb RwoZ| KwLZ Dtík" nwmþji Rb" mKj mæe" Dcvtq cKí mæúbeKiþZ nq| GB mgštqi „Yv, þYi Dci cKí ev-évtb AþbKvstþk űbfþKxj | cwi exᚦþYi gva'tg djvdj mæúþK"Z\_ "w" cvlqv hvq Ges Zvi mstþkvaþbi gva'tg cKí ev-évtb Kiv nq|

**Dþík"**

GB cW þktl Avicwb-

- cKí ev-évtb gvbe mæú` mslMv mæúþK"ej þZ cviþeb|
- e'e-vcbv Kvþewj mæúþK"eYþv w þZ cviþeb|
- cKí ev-évtb mgm"v mæúþK"Avþj vPbv KiþZ cviþeb|

**gvbe mæú` mslMv**

cw\_@ mKj KvþRB gvbe mæú` Acwi nvþ? AZGe cKí wPwüZKiY t\_þK iia Kþi ev-évtb chšimKj KvþRB gvbe mæú` cþqvRb| gvbe ntjB gvbe mæú` nlqv hvq bv| gvbeþK mæúþ` iþcvšhiZ KiþZ nq| cKí ev-évtþbi Rb" AZ"šl`ᚦ gvbe cþqvRb| gvbe mæúþ`i meþK ᚦgZv cþqvþMi gva'tgB cKí mþvte ev-évtb mæe| cKí ev-évtþb űþtþe űelqvej x cþYarþþvM":

- cKþi i cþZ"Kw Dcv"vþbi e'e-vcbv cþqvRb| űewfþæDcv" vb űþtq KgþZ mKj þK h\_v" cþKᚦY w þq` wqZ; w þZ nþe| cKí cwi Pvj K Zv gvþUi Kiþeb| KvþRi AMwZ DaYþZb KZᚦᚦ I `vZv tMwþþK h\_v mgþq AewZ KiþZ nþe|
- cKþi i cþZw űefvþMi KgRZþ` i cKᚦY w þq cvi`úwi K mnþwMzvi gva'tg KvR Kivi Rb" Mþo ZþþZ nþe|
- ev-évtþbi ci cKí hw` cieZP Phase G hvevi cþqvRb nq Zvi mþze e-vcbvi wPšl AvþM t\_þKB KiþZ nþe|

mþze e-vcbvi Rb" cKí ev-évtb űþtq űþtþe c`\_þj v\_vKþZ cviþe-

- cþR± Wwþi±i
- GK/GKwæK Dc cþR± Wwþi±i
- cþqvRþb mnKvix cþR± Wwþi±i
- KbóþKkb KvR \_vKþj GKRB "cwZ
- GKRB cþKD iþgU Awdmvi

- GKRB GKvD>Um Aıdmi
- cŃqvRbxq mřtcvŃ ÷vd |

### e`e`ıcbv KvhŃij

ıKŃıv e`e`ıcbvi mř½ AmsL` KıR RıOZ | GKRB cŃı cıı Pıj řKi cııvb KıR nřj v mKj KıR mgšŃ Kiv | cŃqvRbxq KvhŃij i Zııj Kı ıbtgœt` I qv nřj v |

- mKj KZEřŃi mř½ mřı i ıı qıřRv `ıcb Kiv |
- Kvi Mi x mnřhvMx óvd ıbevPb |
- `cıvZ ıbevPb Ges ıbtqıřMi e`e`ıKıY |
- ÷vdř`i KvhŃij mgšŃ I cıı`kŃ |
- cŃkŃıY KvhŃij mgšŃ msMvb Ges ıbqšŃı |
- `j vi ıkc KvhŃij ıbqšŃı |
- `cıvZi KvhŃij Z`vi ıK, cıxŃıY, evQvB, ıbevPb Kiv A\_ev ev` ř` I qv |
- meřkIÁ Ges Kbmıj řUıř`i mg`ıZ\_`ıı` me`ııY |
- řUŃvi tccvi ř\_řK`i iæKři mg`ıKıMRcĀ`Zıı Kiv |
- hšŃıvZ Ges Avmeve cřĀi Zııj Kı `Zıı Kiv |
- mKj KıŃı±(ıbgıř, μq BZ`ıı`) ZĚıevb Kiv |
- `e`ıı` msMŃ KvhŃij, gvj cĀ MŃıY msi ŃıY KvhŃij ZĚıevb Kiv |
- KıŃı±vi meřkIÁ, gvj cĀ mieıvıKıx `j vi ıkc BZ`ıı` KvhŃij ZĚıevb Kiv |
- ıııve ıbKıv e`e`ıcbv cŃııqv Mřo řZıı v |
- mııııK ııřcıU, msi ŃıY, Z\_`ıı` me`ııY, `ııj cĀ msi ŃıY |
- cŃřıı i mııeř ZĚıevb |
- bZb `ıcbv KıR ıbıŃZ KıY |

Source: Education Project Implementation Guide World Bank (IDA), (1975)

ev`é e`e`ıcbvi Rb` cŃı gıřS gıřS chřjıPbv KıřZ nře | Nb Nb gııUııı Kři cŃřıı i ř÷Uıı hvııB Kiv hıq | cŃı mgšŃ GKıU AZ`šı Rııj KıR Ges GUı mgq mřtcŃı | gııřřkřıı Afıve nřj A\_ev gj- KğřZř`i cııı kııgK Kğ nřj cŃı ev`éıvb tek Kııv nřq `ıııı | ÷vdř`i `bııZKZıı Dbęb Ges AvZřekııı Kři Mřo řZııı Rb` cŃıı WıBřııřıı meřřřq eo KıR nj Zıı ÷vdř`i řK gııřřU Kiv |



### **cKÍ ev-évtb mgm'v**

ukḡv cKÍ i eo mgm'v ntj v ev-évtb AuZwi<sup>3</sup> mgq j vtM| cKÍ i cūi<sup>u</sup> K Ae<sup>v</sup>q hū  
 vej<sup>u</sup> NtU Zte Zv tkl chSÍ Pj tZ<sup>v</sup> K| AtbK mgq KgRZP I KgPvix<sup>t</sup> i tctgU  
 vej<sup>u</sup> Z nq| cKÍ vej<sup>u</sup> Z nevi KviY ntj v t`kx A<sup>v</sup> ev<sup>u</sup> et`kx e<sup>t</sup>Riqv<sup>t</sup> i Mlogum I bll  
 atí ivLv| AtbK mgq ZvtZ AmZZvi KivR ubwZ<sup>v</sup> K| ev<sup>t</sup>RU eiv<sup>t</sup>i Rb<sup>u</sup> cKÍ  
 vej<sup>u</sup> Z nq Ges G Kvi tY AtbK mgq cKÍ ev<sup>u</sup> Zj ntq hvq| A`ḡ cKÍ e<sup>v</sup> e<sup>v</sup>cbvi Rb<sup>u</sup>  
 cKÍ vej<sup>u</sup> Z nq| we<sup>v</sup>fbetKv<sup>u</sup> tji Rb<sup>u</sup> Rūg eiv<sup>t</sup>i Am<sup>v</sup>avi Rb<sup>u</sup> cKÍ m<sup>v</sup>WKfite  
 ev-évtb Kiv m<sup>v</sup>e nq bv| <sup>v</sup>cZ<sup>u</sup> Kv<sup>t</sup>Ri vej<sup>u</sup> <sup>v</sup>hšc<sup>v</sup>mZ I Avmeve ct<sup>t</sup>i Zvuj Kv<sup>v</sup> Zwi tZ  
 t`ix nI qvUv AtbK eo mgm'v wnt<sup>v</sup>te t`Lv t`q| tU<sup>v</sup>Wvi we<sup>v</sup>u vej<sup>u</sup> Z ntj I cKÍ  
 ev-évtb vej<sup>u</sup> Z nq| A`ḡ KgRZP I KgPvix<sup>t</sup> i Rb<sup>u</sup> cKÍ vej<sup>u</sup> Z nq| KviY hvB  
 tnvK bv tKb cKÍ vej<sup>u</sup> Z ntj LiP teto hvq| AtbK tḡ<sup>t</sup>ĪB cKÍ ev-évtb vej<sup>u</sup> Z  
 nq| we<sup>v</sup>kv<sup>v</sup>st<sup>t</sup>Ki w<sup>v</sup>mve g<sup>t</sup>Z Db<sup>v</sup>bkij t`tki cūg`<sup>v</sup> Z Zxq<sup>v</sup>sk cKÍ ubav<sup>v</sup> Z mg<sup>t</sup>q  
 ev-évtqZ nq bv| mi Kvi<sup>x</sup> b<sup>v</sup>uZ cwi eZ<sup>v</sup>/mi Kvi cwi eZ<sup>v</sup>bi Rb<sup>u</sup> I m<sup>v</sup>WK w<sup>v</sup>x<sup>v</sup>š<sup>t</sup>i Afite  
 cKÍ vej<sup>u</sup> Z nq| GUV m<sup>v</sup>úó<sup>v</sup>ite tevSv hvq th, cKÍ cwi Pij t<sup>t</sup>Ki thv<sup>v</sup>Zv, `ḡZv I  
 me<sup>v</sup> mRvM<sup>v</sup> vKv cKÍ ev-évtb<sup>i</sup> tgv<sup>v</sup>ḡg A<sup>v</sup> j `ḡ cKÍ cwi Pij t<sup>t</sup>Ki Afie ntj  
 cūqvRbxq cKÍ<sup>v</sup>Y w<sup>v</sup> t<sup>t</sup>q ZvtK Kv<sup>t</sup>Ri DcthvMx K<sup>t</sup>i Mto Z<sup>t</sup> tZ nte| thv<sup>v</sup>Zv I `ḡZv  
 hvB<sup>v</sup> vK<sup>v</sup> bv tKb Av<sup>v</sup>fÁZvi tKvb we<sup>v</sup>Kí bvB| Av<sup>v</sup>fÁZvi gva<sup>v</sup>tgB KgRZ<sup>v</sup> v `ḡ ntq  
 D<sup>t</sup>V|



### **cv#VvEi gj`vqb: 8.4**

#### **A) eU ubePbx cKæ**

m#WK DËi ubt`R gj-K A¶iU#K eÆv#qZ Kiab| (D`vniY: Avcbvi ubeP#Z DËiU ØKØ ntj G#K (K) eÆv#qZ Kiab)

1. cKí KgRZv#Kfvte Ly tekx`¶ ntq D#Vb?  
 K. mnKgx# i mn#hwMZvq  
 L. t`tk cK¶¶#Yi gva`tg  
 M. vet`tk cK¶¶#Yi gva`tg  
 N. cK¶¶Y I cvi`úvvi K mn#hwMZvi gva`tg|
  
2. cK#í i t÷Uvm #Kfvte hvPvB Kiv hvq?  
 K. Nb Nb gubUvi s Gi gva`tg  
 L. DaY#b KgRZ#` i m#\_ Avtj vPbv K#i  
 M. g#S g#S cvi`kØ K#i  
 N. mK#j vgtj mfv K#i |

#### **Av) ms#¶B DËi cKæ**

1. cK#í i Kv#Ri AM#vZ `vZv tMv#x#K Aev#Z Ki#Z nq tKb?
2. Kx Kx Kvi#Y cKí ev`évqb vej #Z nq?

#### **B) iPbvj-K cKæ**

1. cKí cvi Pvj bvq cKí cvi Pvj #Ki fvgKv e`vL`v Kiab|
2. cKí ev`évqb #Utg #K #K c`\_vKv c#qvRb?

**m#WK DËi:** A) 1| N, 2| K|



### **Dbqb cūqv**

Dbqb cūqv AveiZ Ges NYqgvb/ G Aveivg cūqv tQ` cotj KgmP e`vnZ nq, cKí h\_vmgf q m`úbæng bv/ cKí i Dfík` mdj nq bv/ GB cūqv KZ\_tjv av`ci gva`tg Ptj | avc\_tjv:

- t`tki Av\_`mvgvRK Ae`v mgr`Y I mek- IY
- AMñaKvi uba`Y
- cūqvRb ubar`Y
- cKí `PüZKiY I m`te`Zvi Abg`vb
- KZ`KZ` uba`Z Q`K cKí cū`le cū`qb
- Abtgv``bi Rb` e`e`v MhY
- cKí i A\_`qb
- AveiZ cKí ev`evqb Kih`ej cwi ex`Y
- cKí mgvBKiy
- mvgv`K gj`vqb/

**Dbqb cūqv avc**

### **Dbqb cKí i cū`le cū`qb**

wevbaQ`Ki gva`tg cKí i cū`le cū`qb Kiv nq/ cKí i QK Dfík`i Dci w`E Kti `Zwi Kiv nq/ mvavi Yrv`te e`eüZ QK\_tjv nj :

- cKí mvi`CÍ (Project Concept paper- PCP)
- cKí QK (Project Proforma- PP)
- Kwi Mix mvgvZv cKí QK (Technical Assistance Project Proforma- TAPP)
- mvgvZv cū` cKí i cū`vgK cKí QK (Preliminary Project Proforma for Aided Project)
- Dbqb cKí i m`te`Zv mgr`Y I Rwi`ci Rb` cū`le `vL`ti QK (Proforma for Submission of Development Project)

### **vk`Yv cKí Abtgv`b**

vk`Yv Ave`B`ii P`v`vi w`E`Z cKí i cū`le `Zwi Kiv nq/ `KŠ` cKí cū`te KZ`KZ` Abtgv`b cū`qvRb weavq Zv vk`Yv gš`Yj`qi cwi`Kibv tKv`l t`Y Kti | cwi`Kibv tKv`l msuk`w KZ`KZ` mvt\_ Avjvc AvtjvPbv cix`Yv-ubix`Yv gva`tg cKí cū`leWj cū`qvRbxZv uba`Y Kti | cix`Yv-ubix`Yv mgq mek`l fite ch`e`Y Kiv nq cū`leW mi`Kv`ii b`wZ, Dbqb `k` I mvgt\_`P m`½ m`wZc`Y`K bv/ h` vk`Yv cwi`Kibv





**cv#VvEi gj`iqb: 8.5**

**A) eú ubePbx c&æ**

m#WK DËi ubt`R gj-K Aq#i#U#K eE#mqZ Kiab | (D`vniY: Avcbvi ube#PZ DËi#U 0K0 ntj G#K (K) eE#mqZ Kiab)

1. uk#lv c#i Kí bvi PpvšÍifc c0vb Kvi `mqZ?  
 K. uk#lv Av#B#i i  
 L. uk#lv gš#y#j #qi  
 M. c#i Kí bvi K#qk#bi uk#lv kvLvi  
 N. Avšgš#y#j q K#q#U i |
2. c#E#ml R c#i Kí bvi M#Y Kiv nq tKb?  
 K. Db#b t`vc ep#i Rb`  
 L. RvZ#q Db#b#i Rb`  
 M. Rbm#vavi Y#K uk#lvZ K#i tZ#j vi Rb`  
 N. Rbm#vavi Y#K m#PZb Kivi Rb` |

**Av) ms#B DËi c&æ**

1. uk#lv Db#b K#m#Pi AšÍ# tKvb tKvb c0Z0vb i tqtQ #j L# |
2. Db#b c0#qvi avc, t#j v#K #K?

**B) iP#vj-K c&æ**

1. uk#lv c&Kí Ab#gr`b c0#qvi #eiY #`b |

**m#WK DËi:** A) 1 | M, 2 | L |

# «Kŕv cwi KÍ bvi m<sup>u</sup>úZKKvj xb MvZaviv I cŕvj Z i<sup>u</sup>Z

## figKv

«Kŕv cwi KÍ bvi BvZnvm L<sup>y</sup> `xN<sup>ŕ</sup> tbi bq| «KŠ' cwi KÍ bvi gva`tg «Kŕvi Dbqb c<sup>w</sup> exi me<sup>ŕ</sup> NUtQ| Dbqbkxj t`k<sup>u</sup> t<sup>j</sup>vi RvZxq Dbqb «Kŕvi Dci w<sup>f</sup>ŕKxj GB fveaviv ü`q½tg AtbK vej <sup>u</sup>^Kti tQ| vej <sup>u</sup>^ntj I Dbqbkxj t`k<sup>u</sup> t<sup>j</sup>vi w<sup>t</sup>Rt`i m<sup>u</sup>ú` I vek| ms<sup>v</sup> Ges abx t`k<sup>u</sup> t<sup>j</sup>vi mnthwMZvq «Kŕvi Dbqb NUvZ c`tŕc MŕY Ki tQ| G BDubtU «Kŕvi Dbqb MvZaviv I cŕvj Z i<sup>u</sup>Z m<sup>u</sup>úK<sup>ŕ</sup>Avgiv «K<sup>l</sup>tev| GB BDubU<sup>t</sup>K wZb<sup>w</sup>U c<sup>v</sup>tV w<sup>f</sup>³ Kiv ntqtQ| Zv nj :

- c<sup>v</sup>V- 9.1: «Kŕv cwi KÍ bvi m<sup>u</sup>úZKKvj xb MvZaviv
- c<sup>v</sup>V- 9.2: cwi exŕY I gj`vq<sup>t</sup>bi cŕqvRbxqZv
- c<sup>v</sup>V- 9.3: cwi exŕY I gj`vqb

**cW 9.1**

**ukŋlv cwi Kí bvi mæúúZKKvj xb MmZaviv**

**Dfík**

GB cW tkfI Avicb-

- ukŋlv cwi Kí bvi Avi æGes µg cwi eZBkxj aviv mæúúK<sup>3</sup>Avtj vPbv Ki tZ cvi teb;
- ukŋlv cwi Kí bvi cPvj Z i mZ mæúúK<sup>3</sup>ej tZ cvi teb |

**cÁvk I Iw`kfk  
ukŋlv cwi Kí bvi  
veeZB**

ukŋlv BiZnvm gube mf`Zvi BiZnvtmi mgeqmx | hM hM ukŋlv Dbaqbi Rb` ivRv-  
 ev`kv, mvgš cftj i gZvgZfKB mevK , iazj t`lqv nZv | cwi Kí bvi gva`tg ukŋlv  
 Dbaqbi mfcvZ NtU wZxq mekhtxi ci | BDfivcxqv t`k,tj vB G wltq AMMvgx  
 fvgKv cij b Kti | dvY G wltq AZ`š , iazcy<sup>3</sup>fvgKv cij b Kti tQ | Zvi ci cÁvki  
 `kfk giSvgnS Avtgnv Kv AfbK eo eo dvDfÜkb thgb tdvW<sup>3</sup>dvDfÜkb, ukŋlv  
 dvDfÜkb cU<sub>exe</sub>v<sub>cx</sub> ukŋlv ve`fti Rb` A<sub>q</sub>tb `ZtcE nq GmMq Avtm |  
 tgvUvgn<sub>dfv</sub>te IvUi `kfk tMvon t<sub>f</sub>KB cwi Kiv Zfite ukŋlv Dbaqbi Rb` Dbaqbxj  
 t`k,tj v S<sub>f</sub>K cto | GLv<sub>t</sub>b D`vniY`f<sub>c</sub> ej v hvq BwÜqv mve KwÜtb<sub>U</sub> AvavK ukŋlv  
 Dbaqbi wfvE Mto tZvj vi Rb` tdvW<sup>3</sup>dvDfÜkb GmMq GtmQj | dj k<sub>h</sub>ZZ ce<sup>3</sup> cüög  
 c<sub>v</sub>K`<sub>ft</sub>b ukŋlv mæúúviY tK<sup>3</sup>, wj-xZ Gb.wm.B.Avi.wJ `mcZ nq | cÜ<sub>g</sub>Kfite  
 cÜZövb,tj vi AeKvVtgv `Zm tZ tRvi t`lqv nq Ges cieZ<sub>f</sub>Z cükŋY I MtelYi  
 KvR cÜZövb,tj v RwoZ wQj |

wet`kx mi Kvi/ms`v Ges t`kx ms`vi Uc e<sub>jt</sub>v<sub>t</sub>µU<sub>t</sub>`i gta` wbtMvmtqmtbi gva`tg cKí  
 t<sub>l</sub>qv nZv | h<sub>w</sub> I P<sub>w</sub>n`v wbi<sub>f</sub>cy ev mgv<sub>f</sub>Ri/cÜZövtbi b<sub>x</sub>Pz`<sub>f</sub>i RbMY mæúú<sup>3</sup> wQj bv  
 Z<sub>mc</sub> ukŋlv GKw AeKvVtgvMZ w<sub>f</sub>Z ZLb i<sub>w</sub>PZ nq | Av<sub>t</sub>`<sub>f</sub>Av<sub>t</sub>`<sub>f</sub>GB avivi cwi eZB  
 Avm<sub>f</sub>Z <sub>v</sub>fK | m<sub>v</sub>n<sub>th</sub>Kvix ms`v/miKvi Dcj wä Kti th ukŋlv Dbaqbi Rb` cÜ<sub>g</sub>K I  
 Dciv<sub>g</sub>mbK ukŋlv ev` w<sub>t</sub>q ukŋlv nvi I gvb Dbaq mæ<sub>e</sub> bq | IvUi `kfk AvfÁZv  
 Dbaqbxj t`<sub>f</sub>ki cwi Kí bve`MY I `vZv ms`vimg<sub>r</sub> mE<sub>f</sub>i `kfk KvR j<sub>w</sub>v<sub>v</sub> | GB  
 `kfk cÜ<sub>g</sub>K ukŋlv cñvi, Zvi m<sub>yp</sub> wfvEi Rb` AeKvVtgv `Zm, ukŋlv µg cwi eZB,  
 c<sub>v</sub>cyK iPbv I weZi<sub>f</sub>Yi Dci l tRvi t`lqv nq | Gfite cwi Kí bvi w<sub>x</sub>v<sub>š</sub> w<sub>t</sub>q cKí  
 M<sub>h</sub>Y Kiv nq Ges Zv ev`evq<sub>b</sub> Kiv, Zvi dj v<sub>d</sub>j I L<sub>y</sub> Drm<sub>v</sub>n e`ÄK bv n<sub>l</sub>qv `vZv ms`v  
 e<sub>st</sub>Z cv<sub>t</sub>i Zviv iayelg` e<sub>w</sub>x Kti Pj tQ | ZvB Zviv A<sub>ms</sub>`<sub>t</sub>bi tKškj cwi eZB Kti  
 Ges c<sub>y</sub>m<sub>ie</sub>ivn, wbiŋiZv `fxKiY, wki gZ<sub>š</sub> nvi Kgv<sub>t</sub>bi Rb` UvKv cÜvb, ŋ<sub>z</sub><sup>a</sup>  
 KI<sub>k</sub>`i Avq evov<sub>t</sub>bv BZ`w i w<sub>t</sub>K A<sub>ms</sub>`<sub>t</sub>bi Rb` g<sub>t</sub>v<sub>th</sub>w t`q |

wek<sub>f</sub> ms`v BD<sub>f</sub>bm<sub>f</sub>Kv, BD<sub>u</sub>b<sub>t</sub>md, BD.Gb.w<sub>w</sub>.w<sub>c</sub> G mKj ms`v cwi Kí bvi gva`tg AfbK  
 cKí ev`evq<sub>b</sub> Kti | IvUi `kfk tkl w<sub>k</sub> t<sub>f</sub>K mEi `kK c<sub>jt</sub>v<sub>U</sub>v cwi Kí bve`,  
 cwi Kí bv ev`evq<sub>b</sub>Kvix ukŋlv<sub>ve</sub>` Ges MtelK<sub>f</sub>`i cükŋ<sub>f</sub>Yi Rb` cKí cÜ<sub>q</sub>tb g<sub>t</sub>v<sub>th</sub>w  
 t`q Zvi gva`tg t`kR wet<sub>kl</sub>Á Mto D<sub>f</sub>V |

**Awk I beYB`kfk  
evsj v`kfk ukŋlv  
cwi Kí bvi veKv**

Avki `kK t<sub>f</sub>K iia<sub>n</sub>q P<sub>w</sub>n`v wbi<sub>a</sub>ct<sub>Y</sub>i gva`tg cwi Kí bv cÜ<sub>q</sub>tb KvR | t`<sub>f</sub>ki  
 Rbkw<sup>3</sup> Mto tZvj v, ukŋlv<sub>µ</sub>t<sub>gi</sub> AvavKqv<sub>b</sub>, AvavK ukŋlv<sub>µ</sub>p cÜ<sub>q</sub>b Ges cW` cyK  
 iPbv, ukŋlv DcKiY I hš<sub>c</sub>wZ mieivn, cÜ<sub>q</sub>vRb wfvEK AeKvVtgv Mto tZvj vi cKí G  
 mgqB te<sub>w</sub>k ev`evq<sub>b</sub> Kiv nq | ukŋlv<sub>f</sub>ŋ<sub>t</sub> G mg<sub>t</sub>qi mdj cKí n<sub>jt</sub>v wE<sub>v</sub>b ukŋlv Dci  
 , iazj Av<sub>f</sub>v<sub>cm</sub>n gva`w<sub>g</sub>K ukŋlv Dbaq cKí | FY cÜvbKvix ms`v thgb G<sub>w</sub>kqv<sub>b</sub>



ḡ Ae GWKkb

tWfj ctgU e'vsK, I qvī e'vsK t'ḡki Pwin`v, A\_ḡwZK Ges migvīRK Ae`v chḡeḡḡY Kḡi FY cōvḡbi wmxvśl tbq| Gi tctḡḡtZ wḡḡvḡḡḡt e'vsj vḡ`ḡk beYB Gi `kḡK AḡbK, ḡjv Dbḡb cḡḡi MḡY Kiv nq| thgb gva'ḡgK wḡḡv Dbḡb cḡḡi, D`P gva'ḡgK wḡḡv cḡḡi BZ`vī | GQov mi Kvi wR Dḡ`vḡMI AḡbK cḡḡi MḡY Kḡi | thgb Qvḡxewḡ cḡḡi, cḡvZb we`vj q I knḡii KḡjR Dbḡb cḡḡi & Avki `kḡK `vZv ms`v, ḡjvi ḡj`vqb djvdj wḡj wḡḡḡc:

- cḡḡi mivḡḡḡi cḡeḡmi Kvḡi i wḡḡv msḡvśl bḡwZ I t'ḡki Av\_ḡmigvīRK Ae`v Rvḡv|
- Avw\_ḡ msKU KvUḡq DVvi Rb` mi Kvḡi bḡwZ I cḡḡi mivḡḡḡi migḡM` weavb|
- Avḡ`Avḡ`wḡḡv i mKj Dcv`vb cḡḡi fḡḡ Kiv|
- Avḡ`Avḡ`vḡv i MḡYi cḡḡi i mKj KvḡR Avw\_ḡ mḡḡvḡwZv cōvb Kiv|

### wḡḡv cḡi Kḡi bvi cḡḡj Z i wZ

GKwU cḡḡi i mdj ev`ḡvḡḡbi Rb` cḡḡi i gva`ḡg CwḡZ Dḡ`k` nḡwḡḡj i cḡḡi PḡḡK QqḡvḡM fḡM Kiv nq| fḡM, ḡjv nj :

- Pwin`v mbr`Ki Y
- cḡḡi `ḡj cōZKi Y
- cḡḡi `ḡj ḡj`vqb
- FY cvevi Rb` Dḡ`vḡ MḡY Ges wmxvśl DcbxZ nI qv
- cḡḡi ev`ḡvḡḡ
- migvīRK ḡj`vqb|

GB `li, ḡjv cḡḡi cḡḡḡb Aa`vḡq we`ḡvi Z Avḡj vPḡv Kiv tḡḡḡQ|



### cḡḡvḡi ḡj`vqb: 9.1

#### A) eū wbePbx cḡḡe

mḡwK Dḡi wḡ`R ḡj-K Aḡḡi wḡḡK eḡvḡqZ Kiab| (D`vni Y: Avcbvi wbePZ Dḡi wU ōKŌ ntj ḡḡK (K) eḡvḡqZ Kiab)

1. cḡi Kḡi bvi gva`ḡg wḡḡv Dbḡḡbi mḡcvZ NḡU KLb?
 

K. Ewbkk wZwi ḡḡi `kḡK	L. Ewbkk Pḡj - ḡḡi `kḡK
M. Ewbkk cḡḡḡḡi `kḡK	N. Ewbkk IvḡU i `kḡK
2. cḡḡi i gva`ḡg cōḡgK wḡḡv wḡZ mḡḡ Kivi Rb` KgḡḡP KLb t`ḡK i iḡnq?
 

K. 1950 Gi `kḡK	L. 1960 Gi `kḡK
M. 1970 Gi `kḡK	N. 1980 Gi `kḡK

#### Av) msḡḡB Dḡi cḡḡe

1. mḡḡi i `kḡK wḡḡv Dbḡḡb wḡḡv tKvb tKvb kvLvq weḡkI tRvi t`I qv nḡZv?
2. cḡḡi Pḡḡi weḡḡḡe`li, ḡjvi bvg wḡj Lḡ|

#### B) iPbḡḡ-K cḡḡe

1. Avki `kḡK `vZv ms`v, ḡjvi cḡḡi ḡj`vqb djvdj Dḡḡ KL Kiab|

mḡwK Dḡi: A) 1| L, 2| M|

**cW 9.2**

**cwi exŋY I gj`vqtb i cŋqvRbxqZv**

**Df`ik`**

GB cW tk`I Avcib-

- cK`i gj`vqtb i cŋqvRbxqZv e`vL`v Ki`Z cvi`teb|
- cK`i i Kvh`m`u`v` `tbi Rb` cwi exŋY i cŋqvRbxqZv eY`v Ki`Z cvi`teb|
- cK`i i Kvh`p`g cwi exŋY I gj`vqb cŋqvri` meiy` w`i`Z cvi`teb|
- cK`i ÷vd`i` i KvR` wKfv`te cwi exŋY Kiv hvq` Zv Avtj`vPbv Ki`Z cvi`teb|
- GKv`WwgK mvt`v` ÷vd`i` gj`vqb cŋqvri` D`j`L Ki`Z cvi`teb|

**gj`vqtb i cŋqvRbxqZv**

we`tkj` mKj` t`tkB Db`eb cwi K`i`bvi Avl`Zivq bvbv` cK`vi cK`i Mpx`Z ntq` \_vt`K| evsj vt`tki` wK`ŋv gS`y`v`j` q wK`ŋv m`u`x`q bvbv` ai`tbi cK`i` `r`axbZv` jvt`fi ci` t`tk M`h`Y K`i` Avm`t`Q| wK`S` Gme cK`i`i` Av`aKv`st`ki`B `iba`ŋi`Z mg`tq bvbv` Kv`i`Y m`u`b`e`Ki`Z` c`i`i` `b| A`\_ŋ` Av`k`v`b`j`f`c` dj`vdj` j`v`f` Ki`Z` c`i`i` b`v| Kv`i`Y` t`K`v`b` GK`u`w` cK`i` GK`K`f`i`te` GK`u`w` ms`-`vi` g`ta` m`i`g`v`e`x` bq| thgb`-evsj vt`tki` cŋ`\_u`g`K` I` gva`u`g`K` `t`i`i` wK`ŋv`m`u`g` I` c`v`W`c`y`K` Db`eb` cK`i`| Bnv` Gb`w`m`u`Jue,` w`M`ic`B,` tbc,` w`c`u`J`Av`B,` gv`D`u`k,` bvt`qg` BZ`-`w`i` cŋ`Z`o`v`t`bi` m`i`n`Z` m`i`v`m`i` f`i`te` ms`u`k`o`| Gme` cŋ`Z`o`v`t`bi` g`ta` mg`st`qi` Af`i`te` Av`aK`v`k` t`ŋ`ŋ`i` cK`i` ev`-`e`v`q`tb` wej`w`Z` nq| Zv`Q`v`o`v,` cK`i` ev`-`e`v`q`tb` A`t`b`K` cK`v`m`u`b`K` w`m`x`v`st`si` cŋ`qv`R`b` nq` h`vi` K`t`q`K`u`w` cK`i` ev`-`e`v`q`tb` KZ`ŋ`ŋ` w`b`t`Z` c`i`i`b` Av`i` w`K`Q`y`w`K`Q`y`D`a`y`Z`b` KZ`ŋ`ŋ` w`b`t`q` \_vt`K`b| w`m`x`v`st`i` M`h`t`Y` wej`w`Z` ntj` ev`-`e`v`q`tb` wej`w`Z` nq| evsj vt`tki` Db`eb` cK`i`i` Rb` eiv`i` A`\_m`o`-`eniv`ti` `li` KL`b`l` GZ` w`b`e`ch`ŋ`q` t`b`t`g` Av`t`m` th` A`t`b`K` mg`q` `v`Zv` ms`-`v` Gifc` Aebw`zi` Kv`i`Y` D`t`o`M` cK`v`k` K`i`b| Gme` Db`eb` cK`i`i` Rb`` Z`pi`Z` Db`e`Z` mva`t`bi` Ab`K`j` cwi`t`ek` m`u`p` Kiv` Acwi`v`h`ŋ` t`tk` cK`i` mg`f`ni` ev`-`e`v`q`tb` AM`M`w`i`Z,` ch`ŋ`e`ŋ`Y,` ev`-`e`v`q`tb,` Av`R`Z` AM`M`w`i`Z,` A`st`i`v`q` BZ`-`w`i` `w`b`i`f`c`t`Y`i` Rb`` Av`ei`Z` cwi` exŋY` I` gj`-`v`q`b` cŋ`qv`R`b| cwi` exŋY` I` gj`-`v`q`tb` i` cŋ`qv`R`bxq`Zv` w`b`t`g`e`D`c`-`i`cb` Kiv` nj`|

- (1) Kv`v`t`g`w`M`Z` cwi` e`Z`b,` (2) wK`ŋ`v`t`K` Av`S`R`w`i`Z`R` Z`j`-`gv`t`b` Db`e`Z`K`i`Y` D`t`-`v`M,` (3) `K`g`o` ms`-`v`t`bi` m`j`h`w`M` m`u`p,` (4) gj`-`t`era` cŋ`Z`o`v,` (5) wK`L`b` dj` `w`b`a`ŋ`Y,` (6) wK`L`b`w`i`f`w`E`K` gj`-`v`q`b` t`K`S`k`j,` (7) wK`L`b` t`k`L`v`t`b`v` cŋ`K`q`v`i` e`-`e`-`vi` cŋ`Z` `i`a`z;` Av`t`i`v`c,` (8) w`e`l`q`w`i`f`w`E`K` be`Z`i` w`K` I` `e`i`k`o`-` A`ei`n`Z`K`i`Y,` (9) Cw`a`Z,` ev`-`e`v`q`Z` Ges` Av`R`Z` wK`ŋ`v`m`u`t`gi` g`ta` e`-`e`av`b` n`w`m`K`i`Y,` (10) wK`ŋ`v`m`u`g` w`e`-`li`t`Y` wK`ŋ`v`K`t`i` f`i`g`K`v` w`b`av`ŋ`Y|

**cŋ`Z`o`v`t`bi` Kvh`p`g` cwi` exŋY` I` gj`-`v`q`b` cŋ`qv`ri`**

K`t`j`R` Kvh`p`g` m`u`x`q` cK`i`i` th` me` w`K`\_`t`j`v` Lw`i`Z`t`q` t`-`L`i`Z` nq,` tm`\_`t`j`v` th` t`K`v`b` cK`i`i` Av`e`w`k`-`K` w`K` Ges` G` Kv`i`t`Y`B` G` w`K`\_`t`j`v`i` w`b`o`v` w`e`t`e`P`b`v`i` `v`e`x` i`v`t`L| cK`i`i` GB` w`K`\_`t`j`v`t`K` Ae`v`n`Z`f`i`te` mg`t`b` G`w`M`t`q` t`b`l`q`v`i` D`ci` cK`i`i` m`v`d`j`-` w`b`f`ŋ` K`i`| e`-`Z` av`i`v`e`w`n`K`f`i`te` cK`i`i`t`K` g`u`b`U`w`i`s` K`i`i` m`v`d`t`j`-`i` ŋ`v`i` cŋ`t`S`l`t`c`S`t`Q` t`-`l`q`v`i` Rb`-` th` me` cŋ`qv`ri` Ab`v`y`Z` nq` tm`\_`t`j`v` nj`:

(K) Delphi የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

**ግብርናውን ማጠቃለያ**

(L) Programme Evaluational Review Technique (PERT) የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

(M) Planning, Programming and Budgeting (PPB) የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

(N) I Gg Avi (Optical Mark Reader) የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

ግብርናውን ማጠቃለያ የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

**ሰው ኃይል ማጠቃለያ (Staffing)**

ግብርናውን ማጠቃለያ የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

**ግብርናውን ማጠቃለያ ስራዎች ለማጠቃለያ**

ግብርናውን ማጠቃለያ የግብርናውን ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው። ለግብርናው ስራዎች ለማጠቃለያ የሚያገለግል ስልጠና ነው።

### e`MZ m`hull mjev ubwDZ Kiv

KvRi Rb` chfB `vb, hšcwZ, miAvg, Kuc cŃZ Kivi mjev, tmtμUwi tqj mnvqZv BZ`w` gubUwis Gi KvRfK mnRZi I Avb>` `vqK Kti tZvtj |

### A\_`mú`

gubUwis Gi Rb` A`\_P unmv I A`\_P thvMvb ubwDZ Ki tZ nq | gubUwis `iaai AvfMB Gmtei thvMvb PovšfKi tZ nq |

gubUwis e`e`vcbvi t`fT msuk e`w<sup>3</sup>etMP cŃk`fYi Dci tRvi w` tZ nq | GB cŃk`fY mKj chfqi e`w<sup>3</sup>etMP Rb` Avek`K | Z\_` msMh, msi`fY, djvdj wbyq I AewZ KiY met`fT h\_v\_`c`xwZw Rvbr I KvhRi fite cŃqM Ki tZ nq |

mıtcvU<sup>o</sup> ÷vtdi Kvhmúv`b cŃq mŃZl KvhRi fite cwiPij bvi Rb` cwiex`fY I gj`vqb Acvniwh` cwiex`fY I gj`vqfbi aviYv, cŃqRbxqZv, c`wZ BZ`w` m`fU BwZc`e`Avtj vPbv Kiv n`qfQ | GLb cŃtU Avgiv ÷vtd`i Kvh`múv`tb cwiex`fYi cŃqRbxqZv, cwiex`fY I gj`vqb cŃq Ges cwiex`fY I gj`vqb Dftqi Kvh`múv`tb w`Kifc mnvqK fvgKv cvj b Ki tZ cvti tm w`l tq wbtP Avtj vKcvZ Kivi tPov Kiv n`qfQ |

### gubUwis Gi cŃqRbxqZv

K) BwZgta` Avgiv tRtbwQ th gubUwis th tKvb cŃk`fB msuk \_vtK | GuU tKvb Pwctq t`l qvi w`l q bq | th tKvb cŃk`f MpxZ nl qvi ci ev`evqfbi KvR\_`tjv wba`wi Z mgtqi gta` m`úv`tbi Rb` cŃqRbxq Rbej, Dcv`vb, DcKiY tRvMv`tbi gva`tg j`f` AR` Kite GuU Avgv`i mKtj i cZ`vk | w`KŠ`ev`te AMwZ mn`R I `^Qt` NtU hvte Zv w`A I `f`kv`e`e`vcKMYI ubwDZ fite ej tZ cvtib bv | Avi Gi Rb`B Z`vi w`K i Kivi nq | G RvZxq Z`vi w`K I Z`w`itK Avgiv mvgw`M`K gj`vqb evj Ges GuU w`KŠ` gubUwis KvR |

L) gubUwis KvRi AMwZ t`Lvi I hvPvB Kivi Rb` cŃqRb-

- (1) m`w`w`` c`xwZ Abyvi Y Kti cŃqRbxq Z\_` msMh I msi`fY Kiv |
- (2) msMpxZ Z\_` hvPvB Kti cŃqRvZ I w`k- IY Kiv |
- (3) djvdj cŃk`f e`e`vcbvtK Rwb`tg t`l qv |

Dctiv<sup>3</sup> KvRi wıtcvU<sup>o</sup>Abyvi K (Follow Up) Kvhfvg Mh`fYi mgq cŃqRb nq |

M) cŃk`f PjvKvtj D`wZ m`m`v ev Ašfvg thgb- cŃZ`iva, ev`evqb c`wZ ms`vi, YMZgvb ubwDZ Ki tYi j vMmB cŃq D`w`eb I cŃqM BZ`w` c``f`c Mh`fYi mgq I tKŠkj m`úv`K`gubUwis Kvhfvtgi gva`tg Rvbr hvq |

փ՛ Ae GWԷKkb

N) Dci՛ gubUuis GKւU avivewnK c×ւZ tm KvիY Gi Avl Zvq KvիRi chթj vPbv, Aճիւր ւՍւZKiY Ges Gi KvհRiY ւեղկ Y Kti mթw Յ Aճիւրqi cԷւZ. I փ՛fc Rvbr Ges Aճիւր DԷիYi cՊqM thvM՝ tKՏkj DՄեբ Ges tm,tj v cՊqM Mi gva՛tg h\_vmgտq KvR mօւր`b Kiv|

**÷vd՛ i KvR ւԷfւե gubUuis Kiv hvq?**

gubUuis KvRւU mօւտԷZւԷԷfւե ej v hZ mnR ւԷՏ՛ evփե Kiv ZZ mnR bq| G Dcj ւä t\_տ gubUuis ւեղկÁMY tm me civgkԷcՕvb KtiտQ tm,tj vտK Avgiv ւտՍi cԷթtj vi DԷi tԼւRvi gva՛tg tctZ cւii :

- K) ւbaթi Z mgտqi gta՛ ւbւ Յ KvR,tj v mօւտտտտQ ւԷ?
- L) KvR,tj v mօւր`tb h\_vmgտq `Պ Rbej ւbhթ Kiv ntտQ ւԷ?
- M) ւbaթi Z KvիRi Rb՛ eiv՛KZ.A\_՞h\_vmgտq Qvo Kti t`I qv Ges ւԷK ւԷK e՛q ntտQ ւԷ?
- N) mթեԹւii , YMZ gub ւտ՛՝ՔK j Պ՛gvՄ AvRՉ ntտQ ւԷ?

Dctii cԷթtj v ւԷK ւԷK DԷi tctZ ntj Avgv՛իտ ւտՍi gubUuis cՊւրqi avc,tj v Aբյi Y KiտZ nթe:

- K) Ktj թRi GKvիWigK KvR,tj v mթw Յ fւե msւk- ó GKvիWigK e՛ւՅetMՔ թriv ւՍւZ Kiv|
- L) cՕZւU KvR mօւտեKiտZ mgտqi cւii mi mKtj ւgtj ւbaթ Y Kiv|
- M) ււրfbæchթq `ւրZj;eUb Ges `ւրZj;mօւր`tb Dchթ KgՔk j x ւՍւZ Kiv Ges Zvտi iտK mrvqZv`տbi Rb՛ cՊqRbxq Rbej , mvgMթi thvMvb cՕvb Kiv|
- N) KvիRi aviv/cԷւZ. I cւii mi Ges AMՕւZ ւbifctYi cՊqMthvM՝ c×ւZ ւՍւZ Kti Zv e՛envi Kiv|
- 0) cՊւj Z e՛q mօւտԷԷAv՛vR KiտZ civv Ges Zv tgUտbvi Rb՛ cՊqRbxq A\_՞ thvMvb `տbi e՛eփ Kiv|
- P) evփvտbi Aճիւր ւՍւZ Kiv|
- Q) Aճիւր DԷիYi mvgւMԷ e՛eփ Kiv|

Dcti ewYՉ ւելq,tj v mօւտԷԷmg՛K aviYv I ւտ՛՝Rbv jvտF Avgiv nvqi tmտKՕvix cԷտի i KvR,tj v tetQ ւտZ cւii | GB cԷիւU nvqi tmտKՕvix փի i ւԷՊււրց cւii gvRԹ I bevտbi KvR,tj v ւbgթfc ntZ cvti :

- D՛P gvaւրgK փի cՊւj Z ւԷՊււրց chթj vPbv (ւԷՊւi eZթvb Pււնփ, cՊւj Z ւԷՊււրց KZUԷzcիY KiտZ criտQ Zri Rb՛ evփ Aeփ ւեղk- IY (Rւi c) ւեղկիÁi AvrfgZ MթY, thՏւՅK gjփvqb)|

- c`hvj Z D`P gva`ugK `fii uk`qvµtgi mej I `g` w`K wPwZKiY | [uk`qvµg mek- IY mekI`Ai gva`tg thšw`K gj`vqb, djvdj, mgKvtj i Rxeb avit`yi aib BZ`w` mµµq metePbvq Gtb mej I `e` w`K wbjfcY] |
- D`P gva`ugK/gva`ugK `fii uk`qvµ j`q I D`f`k` wbjfcY (eZgub Ae`vi cuFvgtZ G `fii uk`qvµ Kvj KZ mgqe`vcr nte Zv wbyq | ivóq Av`k,`xN`gqv` Dbq b cwi Kíbv mtef`wi gvbe m`ú` e`e`nv`fii c`RkKb) |
- uk`qvµg I cvV`mµP: tgšj KvVtgv wba`fY (cvV` w`elq, c`ZwU w`elqi cvV`e`i thšw`K w`eb`vm, gv b eU b, ZvE`K I e`enw`i K) |
- ukLb mvgM` c`Yqb (tj LK, m`ú`v`K, gj`vqbKvix, wP`I, bKkvKvix, cwi wPZ c`k`qY, m`ú`v`bv, ÷vBj, g`yY BZ`w`) |
- gj`vqb tKškj (Kvh`eg gj`vqb, uk`qvµ`f ukLb AM`wZi gv`v gj`vqb cix`qv avivev`nK, mvgµqK, Ppvš, mvgµM`K BZ`w`) |
- uk`qK c`k`qY (PvKzixKvixb, PvKzixc`e c`k`qY, uk`qvµg w`e`iY, c`k`qY cwi wPvZgj-K, e`e`v`cbvgj-, A`q b-e`q gj-K, w`elqv`wE`K c`k`qY BZ`w`) |

Dctiv`3 w`elq GKv`WvgK I m`v`cvU` ÷vd`i g`a` GKv`WvgK `wq`Zj wbtqv`RZ e`w`3eM` c`Z`q fvgKv cij b Kti `v`K Ges m`v`cvU` ÷vdMY wKQy wKQy w`elq c`Z`q Ges wKQy wKQy w`elq c`ti`v`q fvgKv cij b Kti `v`Kb |

**gj`vqb (GKv`WvgK I m`v`cvU` ÷vd)**

Avgiv Rwb th c`Kí Mh`tYi ci t`\_tK ev`lvq`b i mgv`B chš`mgqKvtj c`Kt`i ev`lvq`b AM`wZ mve`q`wYK Z`vi wK Ges Z`vi wKi gva`tg Aš`i vq wPwZKi`tYi Rb` th mvgµqK gj`vqb Kti c`B Zt`i w`f`E`Z thv`Mv`b i w`x`v`š Mh`tYi c`µµqv n`tjv gv bU`v`i | Avgiv GZ`qY Ktj`Ri GKv`WvgK I m`v`cvU` ÷vd`i KvR m`ú`v`b c`x`wZi gv bU`v`i s c`µµqv m`ú`v`K` AvtjvKcvZ Kti`wQ | cieZ`P Abj`Q, tjv`Z ÷vd`i c`µµqv Ges gj`vqb GKv`WvgK I m`v`cvU` ÷vd`i mvgµM`K Dbq`tb tK wKf`vte mrvqZv c`v`b Ki`Z cv`ti tm m`ú`v`K` Rvbe | uk`qvµ c`Z`v`b i e`e`v`cbv m`v`v`iY Z `B ait`b i n`q `v`K thgb, GKv`WvgK e`e`v`cbv Ges KgR`Z`P KgPvix e`e`v`cbv | wKš`tKv uk`qvµ c`Z`v`b i Kvh`eg gj`vqb Ki`Z n`tj Gi cwi Kíbv, Rbej, mvgM`, thv`Mv`b, mrvqZv tmev BZ`w` m`g`z c`µµqv gva`tg gj`vqb Ki`Z n`te | wKš` GKv`WvgK I m`v`cvU` ÷vd`i Kvh`eg gj`vqb c`v`v`MZ cvit`m`v`bj Bf`v`j`q`kb Gi Avl Zvq c`to | Avi cvit`m`v`bj Bf`v`j`q`kb ej`tZ tKv c`Z`v`b c`Kt`i Avl Zv`f`Z mKj uk`qK, e`e`v`cK, c`k`v`mK mekI`Á, KgR`Z`P, KgPvix`K ev`š`q `v`K | c`Kt`i Rbej`tK ch`e`qY, Kvh`eg`ú`v`b, g`j`Lvg` AvtjvPvvi (mrv`qv`Kv`i) gva`tg gj`vqb Kiv nq |

GKv`WvgK I m`v`cvU` ÷vd`i Kvh`eg`ú`v`b c`x`wZ gj`vq`b i gva`tg w`b`w`3 w`tK Kvh`Ri w`K w`b`Rbv cvl qv h`vte hv tckv`MZ gv b Dbz`Z Ki`tY mrvqZv `vb Ki`te |

- f`iel`v`Yx Kiv

փ՛ Ae GWԶKkb

- KviY ԽbiԳY (Diagnostic)
- ԽbeՔb Kiv
- ԻkYxKiY Kiv
- Խbփ՛ Rbv ՝vb
- Խm×vՏ՛/ՄՈ՛Y|



## ԸՎԻՎԵՆԻ ԳՅ՝ՎԳԲ: 9.2

### A) e՛ւ ԽbeՔbԻ ԸԿ՞՞

մԽԿ DԵ՛ի Խbփ՛ R ԳՅ-K AՊԻՍԻՒԷԿ eԶՎԳԶ Kիab| (D՝vniY: Avcbvi ԽbeՔPZ DԵ՛իՍ ՕKՕ ntj GփK (K) eԶՎԳԶ Kիab)

- 1| ԸԿԻ՛ e՛՛ԵՎԳԲ ԻKb ԽեՅ ԽԶ nԳ?  
 K. Խե՛ԲԵԸՉՕ՛ՎԻԲԻ ԳՎՏ ԵԳՏՏԳԻ AԲՎԵ  
 L. ԸԿԻ՛ ԳՅ՝ՎԳԲԻ AԲՎԵ  
 M. ՝KԳՏ՝ՎԻԲԻ ԵՃԽՄ ԵՍԻ KviփY  
 N. ԳՍՍԻՍ Gi ՝ԳՉvi KviփY|
- 2| ԳՍՍԻՍ Gi Rb՛ Aփ\_P ԽԿ KիփZ nԳ?  
 K. Aփ\_P ԻԽՄԵ ԽԽՕZ KիփZ nԳ  
 L. Aփ\_P ԽԽԵ ԽԽՕZ KիփZ nԳ  
 M. Aփ\_P e՛՛Գ ԽԽՕZ KիփZ nԳ  
 N. Aփ\_P ԽԽԵ I ԻԽՄԵ ԽԽՕZ KիփZ nԳ|

### Av) ԵՍՊԻԲ DԵ՛ի ԸԿ՞՞

1. ԻKvb ԸԿԻ՛ ԽԵՊԻ Z ԵԳԳ I e՛փԳԻ ԳՃ՛՛ ԻKb ԵԶՍԵԿiv ԻՎԳ ԵՎ-ԽՅ LԳ|
2. Delphi- ԵԶՖԿՊԻ LԳ|
3. ԵԳՎԽԿ ԳՅ՝ՎԳԲ ԽԿ e՛՛L՛՛ Kիab|
4. ԸԿԻ՛ ԳՍՍԻՍ ԽԿ?

### B) iPԵՎԳՅ-K ԸԿ՞՞

1. ԻKvb ԸԿԻ՛ ԳՍՍԻՍ I ԳՅ՝ՎԳԲԻ ԸՊԻRԵԳԶԻ ԵԶՖԿՊԻՅՎԵՅ Kիab|
2. ԸՆԶՕԵԿ KիԻԳ ԸՍԻ ԵՊԻY I ԳՅ՝ՎԳԲ ԸՍԻԳԻ ԽԵԶ Kիab|
3. ÷ՎԳ՛՛ i ԽԿԻ՛Ե ԳՍՍԻՍ Kiv ԻՎԳ ԽՅ LԳ|

մԽԿ DԵ՛ի: A) 1|K, 2| N |

cW 9.3

cwi exŕŕY (gubUuis) I gj`vqb

Dfík`

GB cW tkŕl Avcwb-

- cwi exŕŕY wK Zv e`vL`v KiŕZ cviŕeb|
- gj`vqb wK Zv eŕŕŕq ejŕZ cviŕeb|
- cwi exŕŕY I gj`vqŕbi cv`R` wbiacY KiŕZ cviŕeb|
- gj`vqŕbi tkYmeb`vm KiŕZ cviŕeb|

gubUuis I gj`vqb wK?

gubUuis wK

(K) gubUuis: gubUuis K\_wU mva`úŕZK Kvŕj i | Gi evsjv cŕZKā nj cwi exŕŕY | wKš' cwi exŕŕŕYi Zžbvq gubUuis tenk cwi wPZ | gubUuis K\_wU GŕmŕQ weÁvb I chnyš wclqK D`mtebvqj-K cKŕi Ges wŕŕŕvŕ`vm mspwšl eo aiŕbi cKŕi MŕY I ev`évbq cŕŕŕŕ/ gubUuis K\_wU Avil wúo Kŕi ejŕj G iKg nq: cKŕi MpxZ nj, Ges ev`évbqŕbi hveZxq AvŕqvRb I KvR iia Ges Dfík` ARŕbi KvR GwMŕq wŕŕq hvl qvi cijv | A\_ŕ gubUuis th tKvb cKŕi i GKwU AwewQbæAsk | GwU mgMŕcKŕi ev`évbq cŕŕqv i GKwU AZ`šl i æZcY`A½ | ZvB gubUuis GKB mŕ½ Means I End GK\_wUŕK Avi I`úo Kŕi ejv hvq-gubUuis GKwU tKŕkj hv j ŕŕgŕx | thgb- th KvRwU nŕZ wŕŕqvŕQ, Zv wK wK GwMŕq Pŕj ŕQ wKbv Zv tRŕb I eŕŕŕ tbi qvi KvRwU nj gubUuis Ges G KvR ZLbB j ŕŕ` ARŕ Kŕi hLb KvŕR tKvb Amŕeav, evav ev mgm`vi mwŕo nq Zv`ŕ Kivi Rb` cŕŕqvRbxq c`ŕŕŕc MpxZ nŕq\_wŕK |

Dcŕi i eYŕv t\_ŕK gubUuis mva`ŕK`Avgiv th avi Yv j vŕf Kijvg Zv nj :

cKŕi MpxZ nl qvi ci t\_ŕK ev`évbqŕbi mgwŕB chšl mgqKvŕj Gi ev`évbq AMŕwzi mveŕŕwYK Z`vi wK Ges mwŕwqK gj`vqb cŕŕqvŕK gubUuis eŕj | cKŕi i AMŕwzi mva`ŕK` wŕbqvŕZ Z` mslŕh, cŕŕqvKiY, wŕtkŕiY I AewZKiY Kvŕŕej x Gi Ašŕŕŕ |

cKŕi gubUuis-G wK wK wclŕq LwZŕq ŕ`LŕZ nq?

(1) cKŕi i Dfík`vejx, (2) cKŕi i mŕwŕŕŕ j ŕŕgŕv, (3) cŕŕŕ Z e`q, (4) Kvŕŕej x mva`ŕŕbi mgqmwŕv, (5) Kvŕŕej x mva`ŕŕbi`wŕZcŕŕŕ KgŕZŕŕms`v, (6) AvÁwŕj K/ wewŕwŕq KgŕZŕŕ wŕtkl wŕtkl KvR, (7) wewŕfbæKvŕŕej xi AMŕwzi, (8) wewŕfbæKvŕŕej xi e`q nŕj wŕj I mgšŕKiY, (9) Kvŕŕej xi cŕZeŕŕZv/Ašŕŕvŕq wŕŕwZKiY I`ŕKiŕŕYi Dcŕq D`mteŕbi gva`ŕg`ŕKiŕŕY e`e`v MŕY, (10) A\_ewŕŕi, e`enwi Ges Kvŕŕŕwŕŕŕbi mŕ½ mgšŕq mwab |



### gubUis KivR

cKí ev-évtqbi GKw kv<sup>3</sup>kvj x nvwZqi wntmte gubUis Gi cāv KivR, tjv nj :

- Dch<sup>9</sup> wēl q, tjv m<sup>u</sup>tK<sup>9</sup>bqigZ Z<sup>u</sup> mSM<sup>h</sup> |
- mSM<sup>px</sup>Z Z<sup>u</sup> wētk<sup>d</sup>Y |
- ev-évtq Kge<sup>wi</sup>Kí bv I cKZ.AM<sup>h</sup>zi gta<sup>u</sup> cv<sup>u</sup>R<sup>u</sup> w<sup>u</sup>bifcY |
- cv<sup>u</sup>R<sup>u</sup>i e<sup>u</sup>avb Kig<sup>tq</sup> Av<sup>vi</sup> Rb<sup>u</sup> gv<sup>bex</sup>q I e<sup>u</sup>MZ w<sup>u</sup>K w<sup>u</sup>bqš<sup>Y</sup> I Df<sup>tqi</sup> h<sup>u</sup>vh<sup>u</sup> thv<sup>Mvb</sup> c<sup>u</sup>v |
- mgm<sup>v</sup> mgv<sup>vt</sup>bi e<sup>u</sup>e<sup>u</sup>v M<sup>h</sup>Y |

### gj-<sup>u</sup>qb wK?

(L) **gj-<sup>u</sup>qb:** Avgiv h<sup>w</sup> gj-<sup>u</sup>qb m<sup>u</sup>uK<sup>9</sup> mw<sup>u</sup>Z<sup>u</sup> ch<sup>9</sup>jvPbv Kwi Zte t<sup>u</sup>L<sup>u</sup>Z cve th, w<sup>u</sup>q<sup>u</sup>wē<sup>u</sup>MY wērf<sup>ba</sup> w<sup>u</sup>t<sup>u</sup>KivY t<sup>u</sup>tK gj-<sup>u</sup>qb<sup>t</sup>K ms<sup>u</sup>Á<sup>u</sup>w<sup>u</sup>Z K<sup>u</sup>t<sup>u</sup>Qb | w<sup>u</sup>b<sup>u</sup>g<sup>u</sup>gj-<sup>u</sup>qb m<sup>u</sup>t<sup>u</sup> c<sup>u</sup>u<sup>u</sup>gK aviYv j<sup>u</sup>vt<sup>u</sup>i Rb<sup>u</sup> K<sup>u</sup>qK Rb wēL<sup>u</sup>v w<sup>u</sup>q<sup>u</sup>wē<sup>u</sup>i gj-<sup>u</sup>qb m<sup>u</sup>uK<sup>9</sup> ms<sup>u</sup>Á<sup>u</sup> Dc<sup>u</sup>vcb Kiv nj :

- w<sup>u</sup>t<sup>u</sup>f<sup>u</sup>bi g<sup>u</sup>Z- t<sup>u</sup>Kiv w<sup>u</sup>KQym<sup>u</sup>t<sup>u</sup>K<sup>9</sup>P<sup>u</sup>erš<sup>u</sup>ite Gi gj-<sup>u</sup>/gv<sup>u</sup> w<sup>u</sup>bifc<sup>u</sup>Yi c<sup>u</sup>P<sup>u</sup>óv nj gj-<sup>u</sup>qb |
- t<sup>u</sup>-K Gi g<sup>u</sup>Z- GKw ce<sup>u</sup>ba<sup>u</sup> Z gv<sup>u</sup>bi m<sup>u</sup>t<sup>u</sup> Aw<sup>u</sup>R<sup>u</sup> gv<sup>u</sup> ch<sup>u</sup>e<sup>u</sup>q<sup>u</sup>Y I wētk- l<sup>u</sup>Yi gva<sup>u</sup>t<sup>u</sup>g Z<sup>u</sup>gv<sup>u</sup>Ki<sup>u</sup>t<sup>u</sup>Yi Z<sup>u</sup> w<sup>u</sup>bifc<sup>u</sup>Y c<sup>u</sup>u<sup>u</sup>qv<sup>u</sup>B gv<sup>u</sup>qb |
- g<sup>u</sup>vK Kiv<sup>u</sup>K I t<sup>u</sup>Rgm Gi g<sup>u</sup>Zv w<sup>u</sup>q<sup>u</sup> Kiv<sup>u</sup>g<sup>u</sup> m<sup>u</sup>t<sup>u</sup> Z<sup>u</sup> mieiv<sup>u</sup> I Zv wēP<sup>u</sup>vi wētk- l<sup>u</sup>Yi gva<sup>u</sup>t<sup>u</sup>g m<sup>u</sup>w<sup>u</sup>K w<sup>u</sup>x<sup>u</sup>vš<sup>u</sup>M<sup>u</sup>h<sup>u</sup>t<sup>u</sup>Yi c<sup>u</sup>u<sup>u</sup>qv<sup>u</sup> nj gj-<sup>u</sup>qb |

Dc<sup>u</sup>t<sup>u</sup>v<sup>u</sup> ms<sup>u</sup>Á<sup>u</sup>, tjv t<sup>u</sup>tK Avgiv th aviYv t<sup>u</sup>cj<sup>u</sup>g Zv nj t<sup>u</sup>Kiv w<sup>u</sup>q<sup>u</sup> Kiv<sup>u</sup>g<sup>u</sup> m<sup>u</sup>uK<sup>9</sup>m<sup>u</sup>w<sup>u</sup>K w<sup>u</sup>x<sup>u</sup>vš<sup>u</sup>M<sup>u</sup>h<sup>u</sup>t<sup>u</sup>Yi Rb<sup>u</sup> c<sup>u</sup>u<sup>u</sup>qv<sup>u</sup>R<sup>u</sup>b<sup>u</sup>q Z<sup>u</sup> Avgiv gj-<sup>u</sup>vtqbi gva<sup>u</sup>t<sup>u</sup>g t<sup>u</sup>c<sup>u</sup>Z c<sup>u</sup>wi | Zte Avgiv w<sup>u</sup>q<sup>u</sup> Kiv<sup>u</sup>g<sup>u</sup>/c<sup>u</sup>Kí gj-<sup>u</sup>qb ej<sup>u</sup>t<sup>u</sup> w<sup>u</sup>Kš<sup>u</sup> w<sup>u</sup>q<sup>u</sup>v<sup>u</sup>w<sup>u</sup>Ksev w<sup>u</sup>q<sup>u</sup>t<sup>u</sup>Ki w<sup>u</sup>q<sup>u</sup>v<sup>u</sup>t<sup>u</sup>bi cvi<sup>u</sup> w<sup>u</sup>Kz<sup>u</sup>vi t<sup>u</sup>P<sup>u</sup>q Avi I Av<sup>u</sup>K w<sup>u</sup>KQ<sup>u</sup>vi K m<sup>u</sup>uK<sup>9</sup>e<sup>u</sup>se | A<sup>u</sup> w<sup>u</sup> t<sup>u</sup>Kiv w<sup>u</sup>q<sup>u</sup> Kiv<sup>u</sup>g<sup>u</sup>/c<sup>u</sup>Kí i gj-<sup>u</sup>, Kiv<sup>u</sup>R<sup>u</sup>vi Zv I m<sup>u</sup>v<sup>u</sup>d<sup>u</sup>j<sup>u</sup> m<sup>u</sup>uK<sup>9</sup>c<sup>u</sup>x<sup>u</sup>w<sup>u</sup>MZ wēP<sup>u</sup>vi wētk- l<sup>u</sup>Y<sup>u</sup>t<sup>u</sup>K gj-<sup>u</sup>qb etj | Gi<sup>u</sup>fc gj-<sup>u</sup>vtq Kiv<sup>u</sup>g<sup>u</sup>/c<sup>u</sup>Kí i D<sup>u</sup>t<sup>u</sup>í<sup>u</sup>k<sup>u</sup> I j<sup>u</sup> q<sup>u</sup> KZU<sup>u</sup>Kz<sup>u</sup>Aw<sup>u</sup>R<sup>u</sup> n<sup>u</sup>t<sup>u</sup>Q ev n<sup>u</sup>t<sup>u</sup>q<sup>u</sup> Zv Z<sup>u</sup> w<sup>u</sup>f<sup>u</sup>w<sup>u</sup>E<sup>u</sup>K wēP<sup>u</sup>vi wētk<sup>u</sup>Y K<sup>u</sup>t<sup>u</sup>í t<sup>u</sup>L<sup>u</sup>v nq |

### gj-<sup>u</sup>vtqbi tk<sup>u</sup>Y<sup>u</sup>wēf<sup>u</sup>M

m<sup>u</sup>avi YZ w<sup>u</sup>q<sup>u</sup> Kiv<sup>u</sup>g<sup>u</sup>/c<sup>u</sup>Kí gj-<sup>u</sup>vtq<sup>u</sup>K c<sup>u</sup>u<sup>u</sup>gt<sup>u</sup> w<sup>u</sup>f<sup>u</sup>vt<sup>u</sup>M f<sup>u</sup>vM Kiv nq | thgb-

(K) cKí ev-évtqKiv<sup>u</sup>xb gj-<sup>u</sup>qb (Formative): cKí Pj<sup>u</sup>v<sup>u</sup>Kij<sup>u</sup>xb mg<sup>u</sup>t<sup>u</sup>q Gi AM<sup>u</sup>h<sup>u</sup>Z m<sup>u</sup>uK<sup>9</sup>m<sup>u</sup>vg<sup>u</sup>qK<sup>u</sup>f<sup>u</sup>ve th gj-<sup>u</sup>qb Kiv nq Z<sup>u</sup>vtK ev-évtqKiv<sup>u</sup>xb gj-<sup>u</sup>qb etj | Gi<sup>u</sup>fc gj-<sup>u</sup>qb m<sup>u</sup>vg<sup>u</sup>qK, t<sup>u</sup>gv<sup>u</sup>mK, l<sup>u</sup>v<sup>u</sup>h<sup>u</sup>mK I ev<sup>u</sup>rm<sup>u</sup>vi K n<sup>u</sup>t<sup>u</sup>Z cv<sup>u</sup>t<sup>u</sup>i |

(L) cKí mg<sup>u</sup>v<sup>u</sup>Bi ci m<sup>u</sup>vg<sup>u</sup>M<sup>u</sup>K gj-<sup>u</sup>qb (Summative Education): cKí ev-évtq tk<sup>u</sup>l<sup>u</sup> th P<sup>u</sup>erš<sup>u</sup> gj-<sup>u</sup>qb Kiv nq Z<sup>u</sup>vtK m<sup>u</sup>vg<sup>u</sup>M<sup>u</sup>K gj-<sup>u</sup>qb etj | w<sup>u</sup>Kš<sup>u</sup> gj-<sup>u</sup>vtq<sup>u</sup>K h<sup>w</sup> Avgiv c<sup>u</sup>wi gv<sup>u</sup>t<sup>u</sup>ci GKw c<sup>u</sup>u<sup>u</sup>qv<sup>u</sup> wntmte MY<sup>u</sup> Kwi Zte Avgiv gj-<sup>u</sup>vtq<sup>u</sup>K P<sup>u</sup>vi w<sup>u</sup> tk<sup>u</sup>Y<sup>u</sup>t<sup>u</sup>Z wēf<sup>u</sup> K<sup>u</sup>t<sup>u</sup>Z

cwi | Avi wk`qv m`uixq cKf gj`vqbtK mek; Rto chwz Pvi tkYtz wef<sup>3</sup> Kiv ntqtQ Ges newfbat`k GB Pvi tkYtzK newfbabvtg AvfwnZ KtiqtQ| WKŠ'GB PviwU tkYx nj:

- wk`qv\_x`gj`vqb (Student Evaluation)
- cKZôvbi wk`qv e`v`v gj`vqb (Institutional Evaluation)
- Kvhvvg gj`vqb (Programme Evaluation)
- KgRZPKgPvi x e`v`vcbv gj`vqb (Personnel Evaluation).

**gj`vqbtbi KivR**

- cKf ev`evqb cwi Kf bvcixqv wbi xqv Kti Zvi `e` I mej w K\_s tju mbv<sup>3</sup> Kiv|
- cKf ev`evqb cxvzi t`vl muU, thvMvb, e`v`vcbv BZ`w m`uixq mgm`v\_s tju wPwuz Kiv Ges KviY\_s tju wbi acY Kiv|
- cKf ev`evqbtbi Ašlvq/mgm`v mgvatvbi bZb Dcvq/tKŠkj D`v`eb Kiv|
- cKf e`v`vcbK, cKvmK I Ab`vb` KgRZP KvhvvgZv I `qvZv eixi tKŠkj wbi fcy I cKf tYi e`v`vkiY|
- cKf ev`evqb cwi Kf bvq cqvRbxq cwi eZB Avbqb Ges Z`vbvvti cwi gvRŠkiY|
- cKf i A`šwzK thvMvb wbi wZKiY Ges h\_vmgtq Avw`R mgšq mvab|
- cKf tgqv`Kvtj i gta` cKf i mg`I Kvhvvg mgvBki tYi e`v`v MhY|

**gj`vqbtbi Dt`k`**

gj`vqb GKwU mksLj AbyvÜvb ev Mtelyv cqvqv| th tKvb cKf i KZ\_s tju wbi w`B Dt`k`\_v`k, th\_s tju dj chw`ev`evqbtbi Dci wfp Kti cKf Mh`Yi mv`RZv| Dt`k`\_tju KZLvb AvRZ nt`Q ev Av`Š AvRZ nt`Q wK bv ev bv ntj tKb nq wv Zv AbyvÜvb Kti t`Lv Ges fivel`tzi Rb` w`K wbt`R KivB gj`vqbtbi gY` Dt`k`| gj`vqb GKwU Pj gvb cqvqv hvi gva`tg Avgiv cKf i Ae`v m`tÜ AemZ ntq cKf cwi Pvj bvi tqv t mdj I wvj w K\_s tju wPwuz Kti Gi gj` ev KvhRwv Zv wba fY Kitz cwi Ges Z`vbvqv mgtz ev`eagv`m`vš MhY Kitz cwi |

**gubwv i gj`vqbtbi cv`R`**

hw` I gubwv i gj`vqb GB`BwU avi Yv`K GKf t`Lv nq Ges GB`BwU gta` m`uKp Avz wbi eo Zey Gf`i gta` h`ó j qvYxq cv`R` itqtQ| gubwv i gj`vqbtbi chwz cv`R`\_tju wbtPi QfK Dc`vcb Kiv nj:





**civVĚi gj`vqb: 9.3**

**A) eú ubePbx cĕæ**

mıWK DĚi ubř`R gj-K AŋiıUřK eĚıvıqZ Kiab| (D`vniY: Avcbvi ubePZ DĚiıU ŐKŐ ntj GřK (K) eĚıvıqZ Kiab)

1. cĕřı ev`ėvqřb ıUg ıı`úıı U Rbřřbvi `vıqZ; Kvi?  
 K. mnřřhvMx ms`vi  
 L. gřřıvj řqi  
 M. Ana`Břıı  
 N. cĕřı cıı Pıj řKi|
2. mıgvıqK gj`vqb ıK?  
 K. KıřRi Ask meřkl Kivi ci gj`vqb Křı mřřkvab Kiv  
 L. KıřRi cıı ııřZ gj`vqb Křı bZb ıKQymřřhvRb Kiv  
 M. KıřRi cıı ııřZ gj`vqb Křı ıKQyAsk ev` ř`l qı  
 N. Kıřřıııv`řbi bZb řKřkj ıbarPıY Kiv|

**Av) msıŋB DĚi cĕæ**

1. cĕřıřı ř`ıı ııU ıKfıře mřřkvab Kiv hvq?
2. mıgvıqK l mıgvıMĕ gj`vqb ıK?

**B) iPbıgj-K cĕæ**

1. cĕřı ev`ėvqřb cıı exŋřřı cŐqıRbıqZıv ıK? cĕřı gııUııı s G řKıı řKıı ıel q Lıřřıř ř`Lřř nq?
2. cıı exŋıY l gj`vqřbi cı`R` ııııııY Kiab|

**mıWK DĚi:** A) 1| N, 2| K|

## fıgKv

ıbgıe 1971 mřj evsj vř`tki Af;`tqi ci t`tk mřvřšZ fıte Dbqb cwi Kíbv MhY Kiv nq| G hverKvj chšÍ 4ıU cÂeml R I `ıı ııeml R cwi Kíbv cŕxZ, MřxZ Ges ev`évıqZ nřqřQ| GQıov 1997 mřj t`tk cÂg cÂeml R Dbqb cwi Kíbv MřxZ nq Ges eZgıtb Gi ev`évıqb cııııı GıMřq PjřQ| G mKj mıgıMĀ/mıgııÖK cwi Kíbvıq ukŕŕv tmııııı Dbqřbi Rb` h\_v\_ı, ıazı Avřıvc Kiv nřqřQ| cwi Kíbv, tııııı mgqKvj ıbgıeıf:

cıg cÂeml R cwi Kíbvııııı 1973-78

cıg ııeml R cwi Kíbvııııı 1978-80

ııZııı cÂeml R cwi Kíbvııııı 1980-85

ZZııı cÂeml R cwi Kíbvııııı 1985-90

PZZıı cÂeml R cwi Kíbvııııı 1990-95

ııZııı ııeml R cwi Kíbvııııı 1995-97

cÂg cÂeml R cwi Kíbvııııı 1997-2002

GB BDıııııK ııZııııı cııııı ııf<sup>3</sup> Kiv nřqřQ| cııııı, tııııı nř`Q:

cııııı- 10.1: evsj vř`tki ukŕŕv cwi Kíbv: AZııZ  
 cııııı- 10.2: cÂg cÂeml R cwi Kíbv  
 cııııı- 10.3: evsj vř`tki ukŕŕv cwi Kíbv: fıvel`Z

**cιW 10.1**

**ειςj ιτ`tki ιkŷιv cιi Kιbv: AZxZ**

**Dtιk`**

GB cιW ιkτi Aιcιb-

- G chσιMpxZ cιi Kιbv mgŋn Dbqτbi mιgιMk Dtιk` eYθv KiτZ cιi τεb Ges
- ιkŷιv Dbqτbi Dtιk` mgŋni ıeei Y ι τZ cιi τεb|

**cιi Kιbv mgŋn**

**cŭg cÂewι R cιi Kιbv (1973-78)**

mιgιMk fιte cŭg cÂewι R cιi Kιbv (1973-78) cθvb Dtιk` ιQj `vι`a ıetgιPb| cŭZιW tm±ti Zvi cŭZdj τbi tPov ιQj | ιkŷιv LvτZi Dtιk` mgŋn ιQj ιbgιεfc:

- RvιZi me©t̃i RbMτYi Pvιn`vi mιτ ιkŷιv mιgAm`cYŋte| KgRıετbi mιτ ιkŷιv m/2ιZcYŋte| Drcv` bkıj KιτRi Rb` ιkŷιv ιP`i cŭZ Kiv nte;
- ιkŷιv e`e`v (AvbθvιbK I DcvbθvιbK) t`tki Pvιn`vi mιτ m/2ιZcYŋte Ges `ŷ Rbκıv<sup>3</sup> Mto ZjτZ nte;
- mKj bvMvιτKi meıθgεt̃i ιkŷιv MθτYi AıaKvι vKte;
- ιkŷιv cŭZθvτbi (kni I MŃg) tgŷıj K cŃqvRbıq ιkŷιv mııεav ιbıθZ Kiv nte|
- ιkŷιv e`e`vτK cŭıgK, gıa`ıgK I D`P BZ`vι LvθZfıte ıetePbv bv Kti mιgιMk fıte ıetePbv Kiv nte;
- ιkŷιvı gıa`tg ms`ıZı ıeKıτki mτhıM vKte;

**ιkŷιv mεθvıq Dtιk`**

cŭg cÂewι R cιi Kιbvı tgıvı eıvı 4445 tKıvU UvKıv gta` ιkŷιvLvτZi cıi gıvY ιQj 313 tKıvU UvKıv A\_ıP 7.1%|

**cŭg ιθewι R cιi Kιbv (1978-80)**

1978 mıτj ιθewι R cιi Kιbv MθY Kiv nq| GB cıi Kıbvıq `vι`a ıetgıPτbi tPtq A\_θvıZK cθııxı nıv evıτbıvı Rb` tRıv t`lqv nq| t`tki ιkŷιv cŭZθvımgŋn ıvθıqKıτY Ges ιkı cκıvb Mto bv Dıvıq A\_θvıZK msKU mııθ nq| Aveıv `et`ıkk mıvıh` Ktg hıvı qıv dtj ιθewı R cıi Kıbv ιQj 3861 tKıvU UvKıv| Gı gta` ιkŷιvLvτZ eıvı ιQj 186 tKıvU UvKıv (5%)|



**PZz`c`Aewl R cwi Kíbv (1990-95)**

wek eQíi (1990-2010) civimtcKilf (Perspective) c-`vb intmte GB cwi Kíbv MhY Kiv ntqilQj | `vii`a`ihKiy Ges Kgms`vb mup ilQj GB cwi Kíbv gE` Dfík` | uk`vLvZi Dfík` , t j v ilQj vbgie/c:

**uk`vLvZi Dfík`**

- weÁvb uk`vLvZi Dci , iaZi Avtivc Kti me`ti weÁvb uk`vLvZi wFZ grez` Kiv;
- Kgms`vb mup i Rb` Kwi Mix I eilEgj-K uk`vLvZi Dbqb Kiv;
- D`Pzi uk`vLvZi cüzövb Ges weÁvb chyb` cüzövb , t j v t k tmUvi Ae Gw t j Y (Centre of excellence) G cwi YZ Kiv;
- uk`vLvZi e`e`vq Revew` intZvi e`e`v trvi`vi Kiv;
- uk`vLvZi gva`tg Dbqb m`PzbZv mup, RbmsL`v cwi Kíbv Ges tmevgj-K Kivh` i Dci , iaZi cÜvb Kiv;
- uk`vLvZi mshvM mjeav weKiv k fvi mvg` i vLvZi Kiv Ges
- uk`vLvZi t`t`i bvi x` i Ask MhY vbuöZ Kiv |

GB cwi Kíbv q tgvU eiví ilQj 67,230 tKvU UvKv Ges uk`vLvZi I agvvtZi eivt`i cwi gvY ilQj 3,289 tKvU UvKv (4.89%) |

**vZxq vewl R cwi Kíbv (1995-1997)**

1995 mvtj weivfbaKv itY mi Kvi c`Aewl R cwi Kíbv c`vqb KíZ civit v | ZvB 1995-1997 tgvvt` vZxq vewl R cwi Kíbv MpxZ nq | GtZ uk`vLvZi 98il Dbqb c`Kí MhY Kiv nq | Gme c`Kí cÜ`v gK, gva`vgK, eilEgj-K/Kwi Mix I D`P uk`vLvZi Dbqtb c`vb` w`tg Kgms` MpxZ nq | GB cwi Kíbv q uk`vLvZi tgvU eiví ilQj 1,584 tKvU UvKv |





### **cv#VĒi gj'iqb: 10.1**

#### **A) eū ubePbx cĕæ**

m#K DĒi #t`R gj-K Aŋi#tK eĒiqZ Kiab | (D`vniY: Avcbvi ubePZ DĒi# ŐKŐ ntj GtK (K) eĒiqZ Kiab)

1. me#ge`ti i gvb#i #Kŋv M#tYi Av#Kvi ej tZ #K eSvq?  
 K) mKj tK bvg `LZ Ki tZ #Kŋv vb  
 L) mgvR hviv e#Z Zvt`i cŐigK #Kŋvi e`v Kiv  
 M) mKtj i #Kŋvi e`v Kiv  
 N) #kí kigKt`i #Kŋvi e`v Kiv|
2. D"P #Kŋvq tgavtK cĕav` t`I qvi A\_ŋK?  
 K. abx-#ba# ey#gĒvi tRvti D"P #Kŋvi m#hvM cĕæ  
 L. abx`i mšbiv tgavi tRvti D"P #Kŋvi m#hvM cĕæ  
 M. Mixe mšbiv ey#gvb ntj D"P #Kŋvi m#hvM cĕæ  
 N. fij cŐZŏtbi tŐtj ivB`i ayD"P#Kŋvi m#hvM cĕæ|

#### **Av) ms#ŋB DĒi cĕæ**

1. #e#l R cvi Kí b# tKb Kiv nq?
2. cvi Kí b#i gva`tg #Kfvte `wi`#metgvPb Kiv hvq?
3. #Kŋv e`vq Reven`#Zvi e`v #Kfvte Mto tZvj v hvq?

#### **B) iPbvj-K cĕæ**

1. cŐg cĀe#l R cvi Kí b#i D#í k`mgn eY#v Kiab|
2. ZZxq cĀe#l R cvi Kí b#i `e#kó`\_tj v #K?
3. PZZ#cĀe#l R cvi Kí b#i bZb`w`K`\_tj v D#tj # Kiab|

**m#K DĒi:** A) 1| L, 2| K|

**cW 10.2**

**cÂg cÂewl R cwi Kí bv**

**Dfík**

GB cW tkfI Avcwb-

- cÂg cÂewl R cwi Kí bvi Dfík, tjv Dfj - L KíZ cvi teb Ges
- cÂg cÂewl R cwi Kí bviq ukŷvi Dfík mgr ej tZ cvi teb|

cÂg cÂewl R cwi Kí bvi ev`évqb 1997 mrtj i RjvB gvtm i iænq Ges Gi tgqv` Rly 2002 chB| ukŷvtŷfI GB cwi Kí bvi Ab`Zg Dfík nj t`tk`ŷŷi Zvi nvi eŷx Ges ukŷvi me`ŷi i , YMZ gvtbi DrKlŷvab| cÂg cÂewl R cwi Kí bvi Dfík mgr ŷbgŷc:

- gibe m`ú` Dbqŷbi Rb` Av`mvgvRK AeKvVtgv Dbaq;
- t`tki AšZ AŷaR tjvKŷK`vvi`a mŷgvi ŷbŷP Avbvi Rb` Kgŷis`vb eŷx Kiv A\_ŷ`vvi`a ŷetgvPŷbi c\_ mnR Kiv;
- ewÂZ GjvKvi Dbaq Ges Aŷ\_P mgeŷUŷbi e`e`v Kiv;
- bviŷ cŷŷli`elg` Kŷgtq Avbv Ges
- Dbqŷbi MYAskMŷŷi Rb` cŷvmbŷK k<sup>3</sup> KvVtgv cŷvb|

**mvavi Y Dfík**

GB Dfík, tjv ev`évqŷbi Rb` ŷbŷŷi tKškj, tjv Aeŷ`b Kivi Dci , iæZŷivc Kiv ntŷŷQ|

- MocoZv ŷRŷŷc 7% nvti eŷx Kiv;
- mi Kivi KZŷ`vvi`a ŷetgvPb Ges cŷ Dbqŷ`æZZi Kivi c`ŷŷc MŷY Kíŷe;
- Lv`ŷ`ŷsm`ú`YZv ARŷb Lv` Drcv`b eŷxi cŷPŷv tbqv;
- cŷBŷfU tmŷŷi ŷebŷŷŷMi Rb` Drmŷv cŷvb;
- mej I`vqx`vbxq cŷvmb Mŷo tZvj v;
- AvbŷvmbK Ges DcŷvmbK ukŷŷv tRvi`vi Kŷi ŷbi ŷŷi Zv`ŷKíŷi cŷPŷv tbqv;
- meRbŷb cŷ\_ŷgK ukŷŷv tRvi`vi Kiv;
- RbmsL`v eŷxi nvi 1.2% G bŷgtq Avbv;
- Avf`šŷi xY mÂq (Domestic Saving) kZKiv 8 t`ŷK 14 tZ eŷx Kiv;
- mKj cŷvi Dbqŷbj-K KvŷR bviŷ`i Ask MŷY eŷx Kiv;

**Dfík ev`evqŷbi tKškj**



**gva`igK I D`P ukŷlv Ava`Bi KZR ev`evqbiab cĕkĭ i Aw\_R AMŃiZi cĕZte`b 2000 mj chŝl**

μt bs	Pj vZ cĕkĭ	tgqv` I cĕP`ij Z e`q	μgcŷAZ e`q Rly/99	GŃŃic eivĭ 1999-2000	Aegŷ Pj vZ gum Ribŷvi/2000 Bs			e`q Pj vZ gum Ribŷvi/2000 Bs			gŝe`
					tgŵ	UvKv	cĕkĭ mŃh`	tgŵ	UvKv	cĕkĭ mŃh`	
1	2	3	4	5	6	7	8	9	10	11	12
1	gva`igK ukŷlv Dbqb cĕkĭ	RjvB 93 -ŵŵtmt 99 38178.00	36935.75	6569.71	4511.98	975.00	3566.98	3180.53	892.62	2287.91	
2	ueAvb ukŷlv Dci iaZŷtvcmn ŵbeŃPZ mi Kvix Ktj ŷRi Dbqb (80 Ktj R)	RjvB 91 - ŵŵtmt: 2000	595320	158.80	-	-	-	-	-	-	ŵcŃc mŷtkvab cĕŷvqvaib
3	mŃZŷKvEi ukŷlv Rb` cŷvZb tRjv m`ŷi Aew`Z mi Kvix Ktj ŷRi ŵetkI Dbqb (15 Ktj R)	RjvB 91 ŵŵtmt: 2000 3100.00	2904.14	195.00	97.50	97.50	-	97.50	97.50	-	-
4	ŵbeŃPZ temi Kvix gva`igK ŵe`ij ŷqi beiqb I Dbqb cĕkĭ	RjvB 92 Rly 2000 28743..00	26743.84	2200.00	1100.00	1100.00	-	607.68	607.68	-	-
5	ŵctŷj tmiKŪvix ŷĕ G`ŵmŃtUY cĕR±	tdeŷ 93 gŷP©2000 35360.00	27568.52	8161.00	3485.31	904.81	2580.50	453.77	373.30	80.47	-
6	PEMŷg ŵeFŵŃq m`ŷi Aew`Z Mm`Ń A_ŃŵiZ Ktj R cĕZŃv	RjvB 93 Rly 2000 812.00	579.00	100.00	-	-	-	-	-	-	mŷtkvaz Abbŷgŵi Z
7	16 ŵŪ Kgŵkŷvj Bbŵ:-ŵŪDŷUi Dbqb	RjvB 93 Rly 2000 190.00	1198.81	700.00	346.00	346.00	-	295.54	295.54	-	-
8	gva`igK ŷi Qvŷŷi DceŵE cĕŵb cĕkĭ (6Ń-10g)	Rvb: 94-ŵŵtmt99 60915.55	63354.68	10000.00	5000.00	5000.00	-	4883.82	4853.82	-	-
9	ŵbeŃPZ 365ŵ temi Kvix Ktj ŷRi Dbqb	Rvb: 94-Rly 2000 (cĕŵeZ) 11355.00	9355.96	150.00	77.50	77.50	-	77.16	77.16	-	-
10	ukŷlv fetbi 2q e- K ŵbgŷP	RjvB97-Rly2000 698.68	150.00	260.00	130.00	130.00	-	130.00	130.00	-	-

ሥልጣን	ፖሊሲ ስር	ገቢዎች / ስራዎች ለ ደንብ	ጠቅላይ ለ ደንብ	ጠቅላይ ክፍያ 1999-2000	ገቢዎች ለ ደንብ ገንዘብ/2000 Bs			ደንብ ለ ደንብ ገንዘብ/2000 Bs			ጠቅላይ
					ገቢ	ሰነድ	ፍቅር	ገቢ	ሰነድ	ፍቅር	
1	2	3	4	5	6	7	8	9	10	11	12
11	ገንዘብ ለ ገንዘብ ለ ደንብ ለ ደንብ (ገንዘብ ለ ደንብ)	Rj/B 93-R/b: 2000 56918.98	44257.03	1000.00	500.00	500.00	-	500.00	500.00	-	-
12	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ (ገንዘብ ለ ደንብ)	ገንዘብ ለ ደንብ 2000 6201.00	5502.24	200.00	83.41	83.41	-	77.90	77.90	-	-
13	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 95-R/b 2000 7175.56	5037.22	1300.00	653.00	653.00	-	648.60	648.60	-	-
14	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 95-R/b 2001 22500.00	505.86	1500.00	1514.00	154.00	1360.00	217.40	-	217.40	-
15	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 95-R/b 2000 5633.00	800.00	1490.00	745.00	745.00	-	722.08	722.08	-	-
16	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 95-R/b 2000 2668.00	225.48	200.00	154.00	154.00	-	14.96	14.96	-	-
17	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	R/b 96-ጠ/ጠ 98 1000.00	632.49	329.00	173.36	173.36	-	140.22	140.22	-	-
18	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 97-R/b 2002 2000.00 6000.00	1387.20	1774.00	-	-	-	1274.85	-	1274.85	-
19	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 97-R/b 2002 34500.00	1158.53	2000.00	1500.00	1500.00	-	1473.45	1473.45	-	-
20	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 97-R/b 2002 30000.00	4947.78	5000.00	2499.99	2499.99	-	2493.80	2493.80	-	-
21	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 97-R/b 2000 20000.00	3438.00	4000.00	2000.00	2000.00	-	1995.30	1995.30	-	-
22	ገንዘብ ለ ደንብ ለ ደንብ ለ ደንብ ለ ደንብ	Rj/B 97-R/b 2002	-	5.00	-	-	-	-	-	-	ጠቅላይ

μt bs	PjwZ cKf	tgv` I c0`ij Z e`q	μgcjAZ e`q Rly/99	Gllhc eivi 1999- 2000	Aegj PjwZ gum Rlyw/2000 Bs			e`q PjwZ gum Rlyw/2000 Bs			gSe`
					tgv	Ukv	cKf mnh`	tgv	Ukv	cKf mnh`	
1	2	3	4	5	6	7	8	9	10	11	12
	I wWw Awlmmn)	7200.00									Abbfgw` Z
23	D`P gva`igK ch#q QvIxf` i DcewE c0vb	Rly 97-RlyB 2002 11238.00	-	1.00	-	-	-	-	-	-	ICIMIC Abbfgw` Z
24	bZbfite RvZxqKiYKZ. miKvix gunjv Ktj R mg#ni Dbqb	RlyB 97-Rly 2002 3848.47	265.74	700.00	593.25	593.25	-	455.26	455.26	-	-
25	tgtnicjy tRjvi gyRebMfi GKilU c0`igK we`ij q, gva`igK we`ij q I Ktj Rmn wk`jlv Kgtc- - c0Z0v	RlyB 97-Rly 2002 2000.00	-	1.00	-	-	-	-	-	-	ICIMIC Abbfgw` Z
26	epEi m#tjU, dvi`cy, DEi e#zi tKvb Dchj` v#b 1uU Kti 3uU miKvix uUuUm Ktj R `vcb I D`P wk`jlvq wbtqwrZ wk`jKt`i c0k`jly	RlyB 97-Rly 2002 2000.00	2.00	150.00	75.00	75.00	-	32.44	32.44	-	-
27	wbe#PZ gva`igK we`ij tqi beg tkYxtZ Kw#uDUvi tKvm` c0Z0 (miKvix I temiKvix)	5000.00	-	5.00	-	-	-	-	-	-	ICIMIC Abbfgw` Z
28	wbe#PZ temiKvix gva`igK we`ij q fetbi (tkYx K`j) Eal`jlx m#u#vi Y	-	-	500.00	-	-	-	-	-	-	ICIMIC Abbfgw` Z
29	AwZcyrZb (40 e0i I Z`g) temiKvix gva`igK we`ij q feb clytubg`j	-	-	300.00	-	-	-	-	-	-	ICIMIC Abbfgw` Z

bZb cKf

ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ ᐃᑦ /2000 ᐃᑦ			ᐃᑦ ᐃᑦ ᐃᑦ /2000 ᐃᑦ			ᐃᑦ ᐃᑦ
					ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ	ᐃᑦ ᐃᑦ	
1	2	3	4	5	6	7	8	9	10	11	12
30	RvZiq chiq Qvix DceiE c0vb cKí	-	-	8600.00	-	-	-	-	-	-	ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ
31	ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ	-	-	4641.78	-	-	-	-	-	-	ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ
32	Xiv gnibMistZ 10u D'P gva'igK mi Kvi x g'Wj we`'ij q (beg-0v`k) `lcb	-	-	100.00	-	-	-	-	-	-	ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ ᐃᑦ
33	Bmj igK Dbqb e'istKi mnvqZiq ube'PZ gv`tmv mgfni cYtubg'Y I m'úthvi Y	-	-	110.00	-	-	-	-	-	-	-

**cÂewil R cui Kí bŷ ukŷvLvZ e`qeiví**

cÂg cÂewil R cui Kí bŷ ukŷv I aglvZi e`q eiví wtpi QtKi t`Lvtr nj :

(ukŷvi DcLvZ wfvEK wfvRb)

μŷgK bs	DcLvZ	tgU eiví (ŷŷj qb UŷKŷ)	kZKiv wtmte eiví
1	cŰŷgK ukŷv	74,635.00	57.99
2	MYukŷv	7,959.20	6.18
DcŷgU		82,594.20	64.18
3	gva`ŷgK ukŷv (gv` & vmv I Kŷj Rmn)	31,204.40	24.24
4	wekpe`ij q ukŷv	5,494.40	4.26
5	wAvBilJmgn	900.00	0.69
6	ukŷvŷŷj q	628.40	0.48
7	Kwi Mix ukŷv	5,088.30	3.95
8	Kwi Mix mrvqZv	321.00	0.24
DcŷgU		43,636.50	33.91
9	K`vWU Kŷj R Ges K`vUbtgU cveij K`ŷ I Kŷj R	791.50	0.61
10	agxŷ wv qveij	4,659.30.	1.28
<b>meŷgU</b>		<b>1,28,681.50</b>	<b>100.00</b>

Drm: cÂg cÂewil R cui Kí bŷ, cui Kí bŷ gŷŷj q, MYcRvZŷ eisj v`k mi Kvi





### **cv#VvEi gj`iqb: 10.2**

#### **A) eũ ubePibx cĕæ**

mĩWK DĒi ũbĕ`R gj-K AŕiũUĕK eĒĩqZ Kiab| (D`vniY: Avcbri ũbePZ DĒiũU ŐKŐnĕj GĕK (K) eĒĩqZ Kiab)

1. tckvMZ ũkŕvi cĕvi NUvĕbri A\_ŕK?  
 K. tckvq `ŕZv jvĕfi e`e`vi cĕvi NUvĕbri  
 L. t`ke`vcx D`P ũkŕvi e`e`v Kiv  
 M. ũĕĕl e`e`vi gvaĕg tckvMZ ũkŕvi e`e`v Ki  
 N. t`ĕk Kvi Mix ũkŕvi cĕvi NUvĕbri|
  
2. bvix ũkŕvi cĕvĩKvĕi A\_ŕK?  
 K. bvix ũkŕvi Rb` bZb cĕZŏvb `vcb  
 L. bvix ũkŕvi Rb` ũĕĕl ũkŕvũg `Zvi  
 M. bvix ũkŕvi Rb` ũĕĕl aiĕbi eũĒi e`e`v  
 N. bvix ũkŕvi AMŏvKvi|

#### **Av) msũŕB DĒi cĕæ**

- 1| D`P ũkŕvĕK tgavũvĒK Ges Cost-Effective Kivi A\_ŕK?
- 2| ũkŕv e`e`vq RbMĕYi AskMŏĕYi A\_ŕK?

#### **B) iPbvj-K cĕæ**

- 1| cĕvũl ŕ cvi Kĩ bvi Dĕi`k`mgĕni ũeiY ũ`b|
- 2| cĕvũl ŕ cvi Kĩ bvi ũĕĕl `enkŏ` DĕjL Kiab|

**mĩWK DĒi:** A) 1| N, 2| K|

**cW 10.3**

**evsj v`k i v`kŷv cwi Kí bv: fíel`Z**

**Dfík`**

GB cW tk`l Avcib-

- eZŷvb v`kŷv cwi Kí bv wekŷd Y Kí Z cvi`teb;
- fíel`Z cwi Kí bv m`úK`Avtj vPbv Kí Z cvi`teb Ges
- mgvR l t`tki Pmn`v c`fYi ev`e mgvwi k tck Kí Z cvi`teb|

**v`kŷv cwi Kí bvi gva`tg Avgv` i mvdj` l vedj`v**

1971 mvtj evsj v`k Afz`tqi ci t`tK Dbq̄b cP̄ov Ptj Avm̄Q| A`bK tŷt̄ Avgiv mvdj` AR̄ K̄tīQ Avevi e`Zvi l Afive tbB| weMZ PvīU Ges Pj̄ wZ GK̄U c`Áewil R̄ cwi Kí bv ZviB` v`ŷi enb K̄ti| v`kŷvi gvb`t̄U R̄m̄Zi gvb`t̄U ubaŷi Z nq| Avgv` i tP̄ovi Afive tbB Zely tKv\_vl tKv\_vl nqZ Avš̄hi KZvi Afive Avt̄Q hvi dtj c̄ZK̄Zgq civ̄U cwi Kí bvi gva`tg| v`kŷvi` YMZ gvb Dbq̄t̄b, `ŷZv AR̄b, mR̄bkj tgavi weKv̄t̄ Avgiv A`bK w̄c̄Q̄t̄q i`t̄q̄U| A`bK Kvi`t̄Yi wfZ̄ti GK̄U eo KviY n̄Z cvi` tckv̄ w̄m̄v̄te v`kŷKZv AZ`š̄l Aet̄n̄j Z Gi dtj gvb̄y bv t̄VK̄t̄j A`ŷ Ab` tKv\_vl P̄vK̄z̄ w̄ḡt̄j v`kŷKZv tckv̄q Avt̄m̄ bv| Zte m̄v̄ú̄ZK Kvt̄j K̄t̄j R l wekŷe`ij q` t̄i thv̄M`Zi e`w̄MY v`kŷKZv tckv̄q hv̄t̄Q̄b| w̄K̄S`GZ`m̄t̄Ēj` YMZ gvb evot̄Q̄ bv| Zvi l A`bK KviY Avt̄Q| Zte` ú̄oZ tev̄Sv hv̄q teiki fiv̄M tŷt̄ v`kŷKMY Kg cwi k̄t̄g teik Avt̄qi w̄c̄Q̄t̄b avl qv̄ Kí t̄Q̄b| gvb̄t̄j i Avq ew̄x̄i c̄ŷq̄R̄b Aek`B Avt̄Q| tckvi c̄Z c̄t̄v` w̄q̄Z; cvj t̄bi ci tm̄Uv t`vl Yxq bq| tgv̄t̄Ui Dci v`kŷKZv tckvi h\_vh\_ gj`vq̄b A`ŷ teZ̄t̄bi m̄tev̄P t`j c̄Uv̄b Kí t̄j Ges Revew̄ w̄n̄Zvi e`e`v cŷc̄vZn̄xb ntj v`kŷKMY Avt̄`l Avt̄`l m̄t̄PZb n̄t̄q DV̄teb Ges v`kŷvi` YMZ gvbew̄x̄ cvi`te|

ce@Zx`cwi Kí bv, t̄jv ch̄ŷj vPbv Kí t̄j m̄t̄R eSv hv̄q v`kŷvLv̄t̄Zi eiv̄l tKvb Ae`v̄t̄ZB R̄m̄Zi Pmn`v tgUv̄t̄Z cvi` bvB| Z`ḡwi Avgiv R̄v̄b A`bK cKí eiv̄l KZ. A`LiP Kí Z cvi`w̄b| Zvi l KviY Avt̄Q| Avgv` i t`tk̄ meiv̄KQ̄B gš̄Yvj q w̄fiv̄EK| gš̄Yvj t̄qi m̄Pe ḡtnv`q t`tK` iiā K̄ti mn̄Kvix m̄Pe ch̄š̄l A`bK tŷt̄ mK̄t̄j iB aviYv v`kŷKiv c̄K̄v̄mb tev̄t̄Sb bv, cwi Kí bv c̄ŷq̄b Kí Z cvi`b bv| dtj ew̄bq̄w̄ c̄k̄ŷY t`tK` iiā K̄ti mK̄j c̄K̄vi c̄k̄ŷt̄Yi m̄thv̄M Z̄t̄i teik| A`bK tŷt̄ v`kŷK̄t̄ i tKv̄Uvi c̄k̄ŷYI Z̄uiv̄ M̄b̄Y K̄tib| w̄Zb/Pvi eQi ci e`j̄xm̄t̄ Ab` gš̄Yvj t̄q Z̄uiv̄ hv̄b| j̄ä c̄k̄ŷY w̄ed̄t̄j hv̄q| ZvB v`kŷK̄t̄ i wfZi t`tK thv̄M` e`w̄eM̄K̄ c̄k̄ŷY w̄t̄q c̄K̄v̄m̄t̄Ki` w̄q̄t̄Z; w̄b̄t̄q̄w̄RZ Kí t̄j Zv̄t̄ i tKvbUv̄B bv civ̄i K\_v bq|

ce@ZP`cwi Kí bvq t`Lv hv̄q GK̄U cwi Kí bvi Dfík`i m̄t̄\_ c̄t̄īw̄i civ̄`ú̄wi K m̄ú̄KŷY| GK c`Áewil R̄x̄t̄Z hv̄j v̄f n̄t̄jv c̄t̄i c`Áewil R̄x̄t̄Z Zv n̄w̄i t̄q hv̄q| A`bK tŷt̄ Dfík` Ges ev`levq̄b tK̄š̄kj m̄yú̄o bq| thgb̄ v̄ix v`kŷvi tRvi AM̄Y`Zv, weÁv̄b v`kŷvi` iaz; ew̄Eḡj-K v`kŷvi Dci tRvi c̄Uv̄b BZ`w̄i i D̄t̄j-L Avt̄Q, w̄K̄S`



**c0\_ugK uk9lv**

uki c0Z uk9lv LiP cll\_extZ mæZ ersj v`tk metP`tg Kg| G LiP Aek`B eyx Kiv  
c0qvRb| cieZx`cA eml R cwi Kí brq arivemKfrte Zv eyx KitZ nte| Avgv`i  
uk9lv GKU eo `eukó` uk9K gfnv`qMY uki`i`iK w`tq melqe` gly` Kivb|  
gly`li gva`tg tgavi h\_v`weKvk NtU bv| tgavi weKv`tki Rb` evj`Kvj t`tKB  
mgm`v mæú` uk9lvq Zv`i Af`i`Kiv c0qvRb| cieZx`cwi Kí brq Zvi c0Zdj b NUv  
Avek`K| GbuRi`i AiwFÁZv KvR jvMv`bvi cšv cwi Kí brq Avbv Avek`K|  
c0\_ugK uk9lv Dbq`tb RbM`Yi Askx`wi Zj Avek`K| mxi, AvKI`Pq cvV`cýK  
uki`i`i AvKI`P Kti, uL`tZ DrmvinZ Kti | AZGe cvV`cýK`Ki gvb Dbq`b Ges webv  
gtj` weZiY e`e`v ubw`DZ KitZ nte| tcv`= vj Uv`timx tc0M0g bv \_vKvq A`bK uki  
c0\_ugK uk9lv ci A9i Avb nmi`tq tdtj | Zvi e`e`v cwi Kí brq ivLv c0qvRb|

**gva`ugK I D`P gva`ugK uk9lv**

cll\_exe`vcx c0Zw`bB bZb Av`tbi mwp`n`Q| Avi tm`tjvi AvakvskB gva`ugK `fi  
Avm`Q| AZGe GKevi uk9lv`ug`Zwi Kti GKhm Zv w`tq Pmj`tq t`evi mgq P`tj  
tM`Q| ZvB ubqvgZfrte gva`ugK I D`P gva`ugK uk9lv`ug I uk9lv`mP Dbq`tbi  
c0qvRb itqtQ| Avgv`i eZ`gvb uk9lv e`e`vq civ`lv c`wZ APj | meP` Pj`tQ  
Am`gvg Aej`b| Zv ubim`tbi Rb` MtelYvi gva`tg Dcivq tei Kiv AZ`vek`K|  
Mixe Ges tgavex`i Rb` we`tkl c`wZ D`m`eb Kti uk9lv t`lqv Avek`K| uk9lv`9t`i  
eZ`gvtbi metfbmb c0v cwieZ`B Kti c0qvRb gZ Zvi e`e`v Kiv c0qvRb| epr  
Kt`m civ`v`tbi Dc`thvMx bZb c`wZ L`R tei Kivi I c0qvRbqZv itqtQ|

tUKvbK`vj I f`tkkbyj GW`Kkb Pvn`wfiEK nlqv c0qvRb| GB e`qmv`c9 uk9lv  
ci thb tKD teKvi bv \_v`K tmw`tK tLqvj ivL`tZ nte|

**c0dkbyj uk9lv**

Bw`Avbqv`is, tgvWK`vj, Kul., AvBb I Ab`vb` tckvMZ uk9lv Av`tiv thšv`K I t`tki  
Pvn`v wfiEK Kivi Rb` cwi Kí brq mjbv`0 ub`Rbv \_vKte|

**D`P uk9lv**

D`P uk9lv Avgv`i t`tk w`b w`b tmv`bvi nmi`tYi gZ`yc0c` n`tq hv`Q| wekte`vj`tq  
fiw`n`tZ B`QK Lg Kg msL`K tQ`tj`gtq D`P uk9lv`tY fiw`P m`thvM tctq \_v`K|  
hv`i Avw`R m`wZ Av`Q Zviv c0B`tFU wekte`vj`tq fiw`n`t`Q| m`n`tbB D`P  
uk9lvq fiw`m`wZ nlqv ev`Abxq| hviv MtelYv Kti bZb Avb mwp`KtZ cvi`te gb,  
gbbk`j Zv I eyx`gEvq Dbz` t`i D`P uk9lv 0vi Zv`i Rb` AevwiZ nlqv Dv`PZ|  
Avan`K h`M D`P uk9lv we`tkj weifb`et`tki mv`t` thvMm`f`v`ctb miv`v`th` Kt`Q|  
cll\_ex GLb A`bK tQvU| GQovon eZ`gvb h`M AvšR`wZKZvi h`M| ci`ú`ti m`t` mæúK`  
v`cb KitZ cvi`tjB Avan`K we`tkj w`tK \_vKv mæ`e nte| eZ`gvtb Avgv`i



## **MScA**

1. BIAM, Manual for Institutional Management Course, Dhaka, 1998.
2. *ফটিক চন্দ্র, বঙ্গবন্ধু চর্চা, এসজিআইএম, ঢাকা, 1994।*
3. Stoner, James A.F., Management, Prantic Hall, New Jersey, USA.
4. Gender and Youth Affairs Division Commonwealth Secretariat, London SW1Y 5HX Britain.
5. Commonwealth Programme, Asia Centre, Chandigarh, India.
6. Magnen, Andre, Education Projects: Elaboration Financing and Management, UNESCO, International Institute for Planning, Paris, 1991.