



cÜKwZK f#Mvj

fugKv:

Avgiv tRtbnQ th, mvari Yfvte f#Mvj ej tZ Ggb kv`fK eSvq hvfZ `vbxK I Kij xK chf@q gvby I cwi tetki gta" Avšt m=úK©cVb cvVb I netk dY Kiv nq| f#Mvj kv`fK th PriuU çvb tkYfZ fVM Kiv nq Zvi Ab`Zg GKwU fVM nj cÜKwZK f#Mvj | f#Mvj kv`j th kvLv cu_exi Rb%, f-ZK, f-cÜKwZ. A_# mgfug, gvj fug, civo, ceZ, b`-b`x, emigÜj, evqgÜj cfwZ. nelq Avtj vPbv Kti ZvK cÜKwZK f#Mvj etj | cÜKwZK f#Mvj i nelqe`zbtq GB BDÜbU i wPZ ntqtQ| Gi nelqe`z ctbuU cvfV fVM Kti Avtj vPbv Kiv ntqtQ| Avgv`i Rreavivi mvf_ Gme nelqi wbeo m=úK©fqtQ|

cW 2.1

f-ZK

Dt`ik`

GB cW tk`l Av`ib

- 1 f-Zt`Ki msAv Rvb`Z cvi`teb|
- 1 f-Zt`Ki Dcv`vb,`tjvi big ej`tZ cvi`teb|
- 1 f-Zt`Ki c`avb Dcv`vb,`tjvi kZKiv cwi`gvY Dt`jL Ki`tZ cvi`teb|

2.1.1 : f-ZK I Bnvi Dcv`vb

f-ZK : mvariY A`_`Qf`-kt`ai A`_`nj cW`ex Avi ŪZK' kt`ai A`_`Pigov ev AveiY|
 ŪKšzckZc`t`q| cW`exi Dct`i i fvM`K f,-ZK ejv nq| Rtb`fi mgq m`thP gZ cW`exl
 GKŪ M`vmicŪ ŪQj | tKŪŪ tKŪŪ ermi a`i Zvc weŪKi`t`Yi dt`j cW`ex eZ`g`vb KŪŪb
 Ae`vq DcbxZ n`q`q`Q| cŪ`tg M`vm Ūct`Ūi ŪKQyAsk kxZj I NbrfZ n`q Zi`tj
 cwiYZ nq| GB Zij Ae`vq cW`exi Dcv`vb,`tjvi `vb weŪbgq nq| Gt`Z fviX
 Dcv`vb,`tjv Zij Ūct`Ūi Ūb`P Ges nvj Kv Dcv`vb,`tjv Dct`i t`f`m I`v| Zij Ūct`Ūi
 mK`t`j i Dct`i th Ask me`k`l KŪŪb nq Zv`K Ūk`j`v`g`Ūj' et`j | f-ZK GB
 Ūk`j`v`g`Ūj i Ašf`P | f-ZK 5 ŪK.Ūg. n`Z 35 ŪK.Ūg. chS- cij`nq| mg`j`i Zj`t`k
 f-Zt`Ki cij`z; me`P`t`q Kg nq| Aciv`t`K gnt`t`ki DByce`Zi Pev`t`K mg`j`i
 Zj`t`ki f-ZK chS`GB cij`z; me`P`t`q tewk nq| f,-Zt`Ki Mo cij`z; 33 ŪK. Ūg. aiv
 nq|

2.1.2 : f-Zt`Ki Dcv`vb

gvby G chS`I 105ŪŪ tgš`ij K Dcv`vb Avne`vi Ki`tZ tct`i`q`Q| Gi g`ta` 15ŪŪ Dcv`vb
 Ū`t`q Avgv`t`i f-Zt`Ki kZKiv 99 fv`M`i Avak Ask MŪŪZ n`q`q`Q| GB Dcv`vb,`tjvi
 g`ta` c`avb 8ŪŪi big n`t`Q h`v`m`tg Av` t`Rb, Ūmij Kb, G`vj Ūg`ubqvg, tj šn, K`vj Ūmqvg,
 t`m`ŪŪqvg, cUŪŪmqvg, g`v`M`t`b`k`qvg|
 f,-Zt`Ki Ab`vb` Dcv`vb,`tjv nj UvBUŪŪbqvg, nvB`t`W`t`Rb, dmdivm, g`v`z`v`b`R, KveŪ,
 mvj dvi, t`K`wi`b, tewi qvg, t`d`wi`b BZ`v`v` |

mvisk

Rtb`fi mgq ŪcW`ex' m`thP b`vq GKŪŪ M`vmicŪ ŪQj | Zvc weŪKi`t`Yi dt`j B cW`ex
 eZ`g`vb Ae`v cŪB n`q`q`Q| cW`exi th Ask me`k`l KŪŪb nq Zv`K Ūk`j`v`g`Ūj et`j | f-
 ZK Ūk`j`v`g`Ūj i Ašf`P | f,-Zt`Ki Mo cij`z; 33 ŪK.Ūg| f-Zt`Ki kZKiv 99 fvM
 15ŪŪ tgš`ij K Dcv`vb Ū`t`q MŪŪZ| f-Zt`K Av` t`Rt`bi cwi`gvYB me`P`t`q tewk| Gi
 ct`i B i`t`q`Q Ūmij K`t`bi `vb|

cW 2.2

f-Af`šf

Dt`ik`

GB cW tk`l Avcib

- 1 f-Af`šf fM`Kfite m`p n`q`Q Zv RvbtZ cvi`teb|
- 1 Akb`Uj i msAv RvbtZ cvi`teb|
- 1 Akb`Uj i c`vb Dcv`vb, tj vi cwi gvY Dt`l Kt`Z cvi`teb|

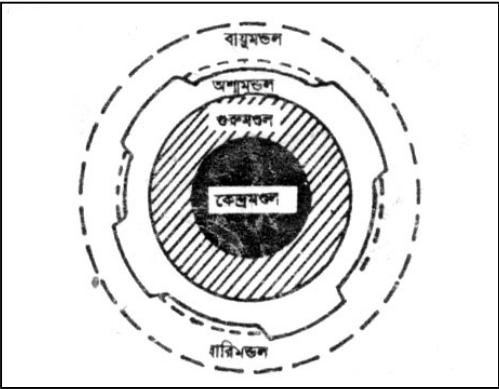
2.2.1 : f-Af`šf

Avgiv BtZvgt` Dt`l Kt`i`Q cW`ex m`p`i mgq Rj šM`v`m`x`q w`c`U`i`Qj | axti axti Zvc w`k`i`k`i`Yi dt`j c`U`tg M`v`m`x`q w`c`U`i`i` KQyAsk kxZj I NYxfZ n`q` Zi`j cwi YZ nq| cW`exi w`f`b`e`Dcv`v`t`bi NbZ; w`f`b`e`n`l`qvi dt`j Zij Ae`v`q cW`exi Dcv`vb, tj vi gta` `vb w`b`g`q` nq| Avgiv Rv`b` n`j` Kv c`v`_`Fvix c`v`t`_`P Dci f`v`t`m`| GB w`b`q`tg tj šn w`b`k`j BZ`v`v` f`v`ix Dcv`vb, tj v Zij w`c`U`i`i` gvSLvb Ae`v`vb`tbq| Avi Kg NbZ; w`k`o` Dcv`vb, tj v Zij w`c`U`i`i` Dcwi f`v`t`M` RgvU te`ta` Kw`b` nq| Gf`r`te` f`-c`d`o`i` Dci t`_`t`K` w`b`t`Pi` w`_`t`K` w`f`b`e`Dcv`v`t`bi` m`v`g`k`f`Y` w`Z`b`U` g`U`j`i` m`p`o` nq| eY`v`i` m`p`e`avi` Rb` f`-Z`Z`p`e``MY` f`-Af`š`f`i`i` Dci t`_`t`K` w`b`t`Pi` w`_`t`K` w`f`b`e`Dcv`v`t`bi` w`k`o` w`Z`b`U` `f`i`i` w`b`e`f`c` b`v`g` t``b` :

K. , i`g`U`j, L. Ak`f`g`U`j, M. t`K`>``a`g`U`j | GB g`U`j`i` t`K`>``a` I cW`exi t`K`>``a`GKB| GQvov cW`exi Dc`i`i` Rj i`w`k`t`K` e`j`v` nq` e`w`i`g`U`j` Ges cW`ex`i`K` w`n`ti` e`v`q`y` Avei`Y`t`K` e`j`v` nq` e`v`q`g`U`j` | w`b`t`Pi` w`P`T` cW`exi w`f`b`e`g`U`j` , tj v t``L`v`t`b`v` n`j` |

2.2.2 : Akb`Uj

cW`exi c`p` t`_`t`K` cW`exi t`f`Z`ti` c`U`q` 60 t`_`t`K` 100 w`k`t`j` w`g`U`vi` M`f`xi` ch`š`f` Kw`b` `fi` Av`t`Q` Zv`t`K` Akb`Uj (Lithosphere) e`j`j` | n`j` Kv` av`Z`z` w`g`k`Y` w`_`t`q` Akb`Uj` M`w`Z` n`t`q`t`Q`| Akb`U`j`i` Dc`i`i` Kw`b` Avei`Y`t`K` f`-Z`K` e`j`j` | GB f`-Z`t`K`i` Dci Avgiv e`v`m` Kw`i` | f`-Z`K` 5-35 w`k`t`j` w`g`U`vi` M`f`xi` | mg`y``i` Z`j`t`K`I` f`-Z`t`K`i` Ask w`n`t`m`te` aiv` nq` | f`-Z`K` M`w`Z` n`t`q`t`Q`



w`P`T` 2.2.1 : cW`exi g`U`j` m`g`r`

bv`v`v` ait`bi` w`k`j`v` I` L`v`b`R` c`v`_`v``i`q` | thme D``vb` w`_`t`q` f`-Z`K` M`w`Z` n`t`q`t`Q` Zvi` g`ta`` i`t`q`t`Q` Av` `t`R`b` (45%), w`m`ij` Kb` (28%), G`v`j` w`g`i`b`q`v`g` (8%), tj`v`v`v` (5%),

K'ij imqvg (35%), tmwWqvg (25%), cUwmqvg (2.5), g'vM#bimqvg (2.5%) I Ab'vb Dcv`vb |

Ak'gU'tj i wfZ'ti Ask'tK etj f-Af'sli ev f-Mf' Ak'gU'j t_tK f-tK`'a ch' c'q 6 nrRvi wK'tj wgl'vi th Ask AvtQ tm m'fU' Av'g'iv te'wK wKQyR'w'b br | mivmwi R'v'vi D'c'v'q'l t'bB | Z'te f'w'gK'au' g'v'c'v'i th h's'i h'v'tK f;-K'au'b w'j L'b h's'i (Seismograph) etj, Z'v'i m'v'v'th' wKQyZ' c'v'l qv h'v'q | G Z't_'i m'v'v'th' f;- Af'sli t_K Av't'iv `w' t'i f'vM K'iv n't'q'tQ, th'g'b _ U'g'U'j I tK`'g'U'j | c'w'ex c'p(f;- Z'K) t_tK hZ M'f'x'ti h'v'l qv h'v'q Z'Z'B c'w'exi w'v'f'b'e'li _t'jv (_ i'g'U'j I tK`'g'U'j) f'v'ix D'c'v`vb w't'q M'w'Z n'q | m'v'v'v'Y'f'v'te g'v'v't' k'x'q f;-Z't'K'i G 'li t_K imqvg (Sial) 'li etj, h'v' w'w'j K'b (Si) I G'j' w'g'v'b'q'v'g (A1) O'v'iv M'w'Z |

mviusk

f;-c'toi D'c'i t_tK w'b't'P'i w't'K w'v'f'b'e'D'c'v`vb Gi M'f'x'i Z'v'i D'c'i w'f'i'E' K'ti f;- Af'sli t_K w'Z'b'w' g'U't'j f'vM K'iv n't'q'tQ | GB g'U'j _t'jv n'j Ak'gU'j, _ i'g'U'j I tK`'g'U'j | c'w'exi c'p t_tK c'w'exi t'f'Z'ti c'q 60 wK'tj wgl'vi ch' K'w'b 'li w'U't'K Ak'gU'j etj | Ak'gU't'j i c'v'b D'c'v`vb _t'jv n'j A'w' t'R'b, w'w'j K'b, G'v'j w'g'v'b'q'v'g c'f'w'Z |

c'v't'w'e'i g'j'v'q'b 2.2

m'w'K D'e't'i i c'v't'k w'K (v) w'p'y w'b |

1. Ak'gU'j c'q KZ wK'tj wgl'vi M'f'x'i?

(K) 30 wK. w'g.	(L) 60 wK.
(M) 50 wK. w'g.	(N) 45 w'g.
2. f;-Af'sli i Z_' Av'g'iv t'K'v't'v'v' h't's'j m'v'v'th' t'c't'q'w'?

(K) f;-K'au'w'j L'b h's'i	(L) Z'v'c'g'v'b h's'i
(M) w'i K'w'v'i t'j	(N) P'v'c'g'v'b h's'i
3. f;-Af'sli t'K'v't'v'v' w'g'U'j w'b't'q M'w'Z?

(K) _ i'g'U'j I tK`'g'U'j	(L) Ak'gU'j I _ i'g'U'j
(M) tK`'g'U'j I ev'q'g'U'j	(N) Ak'gU'j I tK`'g'U'j
4. Ak'gU't'j i D'c't'i i K'w'b A'v'e'i Y't'K w'K etj?

(K) f;-Z'K	(L) ev'q'g'U'j
(M) e'v'v'i g'U'j	(N) _ i'g'U'j

D'e'i : 1 | L 2 | K 3 | K 4 | K

m'v'v'v'v'v' c'k'ae

1 | f;-Z'K K'v't'K etj ?

iPbuj-K cke

1| f-Z#Ki DrcwE I AkbU#j i eY#v w b|

cW 2.3

f;Af ší : , igÚj

Dřík

GB cvW tkłl Avclb

- 1 , igÚj i we`łZ Dřl KłłZ cvi`eb,
- 1 , igÚj i cāvD Dcv`vb , tj vi bvg ej łZ cvi`eb,
- 1 , igÚj i eYθv w`łZ cvi`eb|

2.3.1 : , igÚj

, igÚj (Mautle) : tK>`ğÚj i Pmi w`łK Rłp , igÚj Aew`Z| GB gÚj tj vnr I Ab`vb , i yavZe Dcv`vb wbtq MmWZ| wnj Kb (Si) g`vMłbmqvg (Mg) cłwZ. fviX FZz , wj i msugkłb GB gÚj MmWZ etj GłvłK wmgv (Sima) I ejv nq|' w`vstki GB `łl włK AwZ , igÚj ejv nq| GB Astki Dcv`vb , tj v tK>`gÚj i Dcv`vb , tj v Atc`łv wKQynrėv| , igÚj AZ`wZK DĚB| Złe Pvi w`łKi cłŮ Płci cłvıte GLvbKvi Dcv`vb , tj v Zij I Kłwłbi ga`eZłAe`v A_ł Kł`vi gZ ifc aviY KłłłQ| , igÚj i Dcwi Ask cāvDZ: e`vmė RvZıq Dcv`vłb MmWZ Ges `łl w cłq 2,885 wKłj wglvi we`łZ nq| GłZ wnj Kb I g`vMłbmqvg i łqłQ| Gi Mo NbZ; 8| NbZ; Abyvłti avZzłj vi web`vm wbtP ł_łK Dcłi i w`łK μłgB fviX ł_łK nvj Kv|

mviusk

tK>`ğÚj i PZł`łK , igÚj Aew`Z| GB gÚj i cāvD `łD Dcv`vb nj wnj Kb I g`vMłbmqvg| , igÚj AZ`wZK DĚB| cłŮ Zvc I Płci dłj GLvbKvi Dcv`vb , tj v Zij I Kłwłbi ga`eZłAe`v A_ł Kł`v gmlłi ifc aviY Kłł AvłQ| NbZ; Abyvłti avZzłj vi web`vm wbtPi ł_łK Dcłi i w`łK μłgB fviX ł_łK nvj Kv|

cW 2.4

f;Afšf : tK`gUj

Df`k`

GB cW tkfI Avcib

- 1 tK`gUj i msAv w tZ cvi`teb,
- 1 tK`gUj i cAvb Dcv`vb, tjvi bvg ej tZ cvi`teb,
- 1 tK`gUj i weeiY w tZ cvi`teb|

4.1.1 : tK`gUj

cW_{exi} tKf`i Pviw tK cUq 3 nvRvi uK. ug. Gi I teuk e`vmtaP GK tMj K Aew`Z| Gi bvg t`qv ntqtQ tK`gUj (Core)| AZ`sf DEvtci Rb` GB tMj tKi Dcv`vb m`eZ Zij Ae`vq itqtQ| weAvbx`i gtZ Gi Mo NbZ; 10 t`tK 15| Dcv`vb, tjvi gta` wbtKj (Ni) I tjvnr (Fe) cAvb| GB Rtb` GB AskfK wtd (Nife) ejv nq| Gi avZe cKuzi Dci cW_{exi} PyKZ; AtbKvsk wbfPkxj | Zij Ae`vq vKtj I Gi KwWb` B`uvfZi gtZv| K`ub Zi½ ntZ eSv hvq th, tK`^a gUj i emfM Zij Ae`vq itqtQ| uKšztK`^a ntZ 800 gvBj e`vmtaP gta` tK`gUj KwWb Ae`vq itqtQ etj Abgvb Kiv nq|

mvisk

Avak NbZwewkó Dcv`vb, tjv f;Afšf i tK`fvM Ae`vb KitQ| cW_{exi} tKf`i Pviw tK 3 nvRvi uK.ug. Gil teuk e`vmtaP th tMj K KíYv Kiv ntqtQ Zvi bvg tK`gUj | tK`gUj i cAvb` Dcv`vb nj wbtKj (Ni) I tjvnr (Fe)| G Rb` GB AskwK (Nife) etj | AZ`wak DEvtci Rb` GB gUj i Dcv`vb Zij Ae`vq itqtQ|

cvVvEi gj`vqb 2.4

mVVK DĚti i cvk VVK (v) vPy v`b|

1. tK>`gUti i e`vma`KZ?
 (K) 800 vK.vg. Gi tevk| (L) 1600 vK.vg. Gi tevk|
 (M) 3000 vK.vg. Gi tevk| (N) 4000 vK.vg. Gi tevk|
2. tK>`gUti i c`vnb Dcv`vb `vV vK vK?
 (K) KveV I vviV Kb (L) tmvVqvg I cUvkqvg
 (M) G`vj vgvbqvg I g`vM#vumqvg (N) vbtkj I tj vrv
3. veAvbx`i i gtZ tK>`gUti i Mo NbZj KZ?
 (K) 5-8 (L) 10-15
 (L) 20-25 (N) 30-40

DĚi : 1| K 2| N 3| L

msvVvB cĕe

1. tK>`gUti i Dcv`vbmgr vK vK?

iPbvj-K cĕe

1. tK>`gUti i ve`vni Z veeiY v`b|

cW 2.5

ukjv : AvtMq ukjv

Ditk

GB cW tkfI Avcib

- 1 ukjv Kvtk ej tZ cvi teb,
- 1 weifbaekvi ukjvi bvg ej tZ cvi teb,
- 1 AvtMq ukjvi eYbn w tZ cvi teb|

2.4.1 : msAv I tkYnefM

ukjv ej tZ Avgt`i gtb nq Ggb tKvbn e`zhv KwB, frix Ges Lg k³ | Avmtj ukjv ej tZ eSvq f-ZK hv w`tq MvZ tmB me Dcv`vbtk | ZvB Kv`v thgb GK aitYi ukjv, KukiI tZgub AvtK aitYi ukjv| grtef, cv_i, t`b, emj, PK meWQB ukjv (Rock)|

bvbn iKg ukjv w`tq f-ZK MvZ| GK ev Zvi teuk msL`K LubR c`v`^o(Minerals) w`tq ukjv MvZ| Aci K_vq, f-ZK weifbaeLubR Oviv MvZ| G ugukZ LubR Dcv`vbtk ukjv etj | ukjv wKfite MvZ ntqtQ, Zvi Dci wfiE Kti f-Ztki ukjv mgrtk ZbuU c`vb tkYtZ fM Kiv nq| G_s,tjv nt`Q-

- 1. AvtMq ukjv
- 2. cij wj K ukjv Ges
- 3. ifvshi Z ukjv

1.5.2 : AvtMq ukjv

Avgt`i GB cW_ex mwp nI qvi mgq, cW_exi me Dcv`vb AZ`š Mig, Zij I Rj šl Ae`vq wj | DEB Zij wU Avt`I Avt`I hLb Zvc weWkiY Kti VvUv ntZ_vtk, ZLb Gi Dctii fM RgvU I KwB ntZ`i yKti | Gfite Mj šl Ae`v t`tk Nb ev KwB ntq ukjv MvZ nq ZvtK AvtMq ukjv (Igneous rock) etj |

Aveni AvtMqWmi ev figKt`ui mgq, f-Ztki tKvbn `g Afk dvUj NUtZ cvti | AtbK mgq cW_exi wfZi t`tk g`vMgv (Magma) A`f DEB I Mij Z c`v`^ofei ntq Avtm| GB DEB Mij Z c`v`^of-c`o Gtm cotj GtK jvfv (Lava) etj | GB jvfv VvUv ntq RgvU teta KwB nq Ges AvtMq ukjvi mwp Kti | AvtMq ukjvi D`vniY nt`Q, e`vmè, MòdvBU, MòbvBU, ubm BZ`w` | cW_extZ meE`g AvtMq ukjvi mwp ntqtQ etj AvtMq ukjv tk c`ugK ukjv ev Avv` ukjv (Primary rock) ej v nq| AvtMq ukjvi tKvbn`li tbB|

2.5.3 : AvtMq ukjvi `eikó

- 1. AvtMq ukjv A`li xFZ;
- 2. AvtMq ukjv q tKvbn Rxeik` cvl qv hiv bv;

- 3. AvtMaq ukj v Ac0ek;
- 4. AvtMaq ukj v mÿp Ges mÿsnZ|

mvisk

Avgrv`i f;c0 bvbv c0vi ukj v 0viv MvZ| ukj v,tj v Avevi bvbv c0vi LubR 0viv MvZ| ukj v,tj vK c0vbZ wZbvU tkYxZ fivM Kiv nq| fivM,tj v ntv : AvtMaq ukj v, cvj vj K ukj v I i/cvšhi Z ukj v| AvtMaq ukj v c0_exi c0PxbZg ev c0_vgK ukj v| AvtMaq ukj v Kw/b| AvtMaqMvi i DEB I Mvj Z j vfv VvUv nq RgvU teta AvtMaq ukj vi mÿp Kti | vbm, M'vte0, M0vBU, e`vm0 c0vZ. AvtMaq ukj vi D`vni Y|

cvtVvEi gj`vqb 2.5

mivK DEti i cvtk vK (v) vPy v b|

- 1. f;ZK thme Dcv`vb v`tq MvZ Zvi biv uk?

(K) gvU	(L) ukj v
(M) evvi	(N) evqy
- 2. ukj v,tj vK c0vbZ Kq tkYxZ fivM Kiv nq?

(K) 8	(L) 6
(M) 5	(N) 3
- 3. tKvfbvU t`K AvtMaq ukj vi mÿp nq?

(K) j vfv	(L) g`vMgv
(M) KvKi	(N) RvrvK

DEi : 1| L 2| N 3| K

msvB c0e

- 1| ukj v KvK etj ?
- 2| AvtMaq ukj v KvK etj ?
- 3| AvtMaq ukj vi `evk0` ,tj v vK vK?

iPbvj-K c0e

- 1| ukj v vK? AvtMaq ukj vi veei Y v`b|

cW 2.6

ukj v : cvj vj K ukj v

Dt'ik"

GB cW tkłI Avcib

- 1 cvj vj K ukj vi msÁv w` tZ cvi teb,
- 1 cvj vj K ukj v UKfite MWZ nq Zv RvbtZ cvi teb,
- 1 cvj vj K ukj vi D`vniY w` tZ cvi teb|

2.6.1 : cvj vj K ukj v

ewp, evqy Zzv, Zvc, mgj' tXD BZ`w` c0KwZK kw³, t'v AvtMq ev c0_ugK ukj vK fv½tZ ev ¶q KitZ mnvh" Kti| GB kw³mgñ eo eo cv_tii PtB ukj v, t'vK PY⁹PY⁹Kti Kuki, emj I atj vq cwiYZ Kti| cti evqyb`x A_ev ungev, tft½ hvl qv ukj vKYvmgñ GK RvqMv t_tK AvtiK RvqMv etq vbtq hvq| GB etq tbl qv ukj vKYv c_w ex c_t0 vPyfug, thgb- n0 A_ev mgj'Ztj Rgv ntZ_vtK| Gfite Rgv Kiv ukj vKYvtKB cjj ev Zjvb ejv nq| eQtii ci eQi -ti -ti cjj ev Zjvb Rgv ntq th ukj vi mup nq ZvtKB cvj vj K ukj v (Sedimentary rock) etj |

n0 ev mvtii cjj Rgv nlqvi mgq bvbv ai#bi RjR Ršž nvo#Mvo, umij Kv I tjvni g#Zv c`v_©Ges vewfbæai#bi DwM`i t`n t_tK vBMZ ivmvqubK c`v_©cjj -tii mvt_ugt hvq| axti axti cjj -li RgvU ex#ta| Dctii cjj -li I mvti ev nt`i cvb GKmvt_ vbtPi cjj -ti Pvc t`q| Gi dtj vbtPi cjj -li Avtiv RgvU I Kw/b nq| GfiteB -ti -ti RgvU tet# Kw/b ntq cvj vj K ukj vi mup nq| AtbK cvj vj K ukj vi gta" bvbv iKtgi MvQciv I RxeRšž t`nvetkl t`Lv hvq| A_# cvj vj K ukj vq Rxevk# (fossils) cvl qv hvq| -ti -ti MWZ nq etj , cvj vj K ukj vi Aci bvg -lixfZ ukj v (Stratified rock) |

2.6.2 : cvj vj K ukj vi MVY c'vj x

cvj vj K ukj v vZb Dcvtq MWZ nq| h_v- K. hvšK Dcvtq; L. `RveK Dcvtq; M. ivmvqubK Dcvtq;
 GB vZb Dcvtq MWZ cvj vj K ukj vi D`vniY nt`Q-
 K. hvšK Dcvtq : tetj cv_i Kuiv
 L. `RveK Dcvtq : Kqj v, Pjvvc_i
 M. ivmvqubK Dcvtq : LvbR j eY, vRcmvg|

2.6.3 : cvj vj K ukj vi `evkó"

cvj vj K ukj v -lixfZ, Rxevk#vevkó, tKvqj , Zi½ vevkó Ges AtKj vvmZ|

mvi sk

newfbæcûKwZK kw³i cĕvĕ AvĕMq ukjv PYePYeGes ĩqxfZ nq| ĩqxfZ ukjv Ask GK RvqMv t_ĕK Ab" RvqMv uMtq ĩĕi ĩĕi Rĕg| GB RgvU erav ukjvĕK cvj ij K ukjv etj | cvj ij K ukjvi Aci bvg ĩĕxfZ ukjv| hmišK, ĩRieK Ges i vnvqubK kw³i cĕvĕ cvj ij K ukjv MwZ nq| tetj cv_i, Pbycv_i, LuogvU, uRcmvg, tkj, tjvĕqm cĕvĕZ. cvj ij K ukjvi D`vniY|

cvĕVĕi gj`vqb 2.6

mĕK Dĕĕi i cvĕk uK (v) uPy u b|

1. tKvĕvU cvj ij K ukjv?

(K) tkw	(L) gvĕeĕ
(M) Pbycv_i	(N) MĕvBU

2. tKvĕvU cvj ij K ukjvi ĕekó" bq?

(K) tKj vMz	(L) ĩĕxfZ
(M) Rĕiekĕekó	(N) Zi ½ ekó

3. cvj ij K ukjvi Aci bvg uK?

(K) A ĩĕxfZ ukjv	(L) ĩĕxfZ ukjv
(M) AvĕMq ukjv	(N) iĕvšĕi Z ukjv

Dĕi : 1| M 2| M 3| L

msuĕB cĕe

1| cvj ij K ukjv KvĕK etj ?

iPbvĕj-K cĕe

1| cvj ij K ukjv uKĕvĕ MwZ nq? GB ukjvi ĕekó" , tjv ij Lĕy|

cvfVĚi gj`vqb 2.7

mWk DĚti i cvk Wk (v) wPy w`b|

1. ifcvšti Z ukj vi Aci bvg Wk?
 (K) Av#Mq ukj v (L) cvj wj K ukj v
 (M) A`li xFZ ukj v (N) cwi ewZŽ ukj v

2. ifcvšti Z ukj v mpo i Kvi Y Wk?
 (K) f;Af`šti i Pvc (L) f;Af`šti i Zvc I Pvc
 (M) f;Af`šti i Zvc (N) f;c#oi ¶lq

3. gvtef tKvb ukj v?
 (K) ifcvšti Z (L) cvj wj K
 (M) c#_wgK (N) `li xFZ

4. gj- cvj wj K ukj v ifcvšti Z n#q tKvb ukj vq cwi YZ nq?
 (K) tkW (L) wbm
 (M) M#d#vBU (N) j`v#U#vBU

DĚi : 1| N 2| L 3| K 4| K

msw#B c#ke

1. ifcvšti Z ukj v Wk f#te m#o nq?
2. ifcvšti Z ukj vi `ewkó` wj L#y|
3. ifcvšti Z ukj vi 3wD`vni Y w`b|

iPb#j-K c#ke

- 1| D`vni Ymn ifcvšti Z ukj vi weei Y w`b|

cvVvEi gj`vqb 2.8

mWk DĚti i cvk Wk (v) vPy v b|

1. teuki fiM LubtRi AvKvi vKifc?

(K) AvqZvKvi

(M) vI fRvKvi

(L) eMvKvi

(N) vWvKvKvi

2. tKvbvU vKj v bq?

(K) Kveš

(M) MvbuBU

(L) gvteš

(N) tetj cv_i

DĚi : 1| N 2| K

msvVjB cvke

1| vKj v vK?

2| LubR vK?

iPbvj-K cvke

1. vKj v I LubtRi cv_R` vj Lv|

caVvEi gj`vqb 2.9

mWk DEti i ctk Wk (v) wPy w b|

1. figKtzu i DrcuE `vbtk Wk etj ?

(K) DctK>`a

(L) cwitK>`a

(M) KzuK>`a

(N) tk>`le`y

2. tkvbwji mrvvth` figKtzu i ZxeZv cwigvc Kiv hvq?

(K) Aj uU vUvri

(L) _vtgvgUvri

(M) e`vti vUvri

(N) immtgvUvri

3. figKtzu i ZxeZv cwigvc Kivi Rb` vi LUvri t`fj KquU `vM KvUv _vtK?

(K) 1-10uU (L) 1-12uU

(M) 1-16uU (N) 1-20uU

4. gvfmfxq t`fj KquU `vM KvUv _vtK?

(K) 1-8uU

(L) 1-10uU

(L) 1-12uU

(N) 1-14uU

DEi : 1| M 2| N 3| K 4| L

msvB ckae

1| KzuK>`a KvK etj ?

2| DctK>`a Wk?

iPvgj-K ckae

1. figKzu i KvK etj ? figKtzu i KviY, tjv Wk Wk?

cW 2.10

figK`u ej q

D`i k`

GB cW tk`l Av`ib

- 1. figK`u`i djvdj D`j L Ki`Z cvi`eb,
- 1. figK`u AA`j ,tj v nek`gvbiP`T` t`Lv`Z cvi`eb|

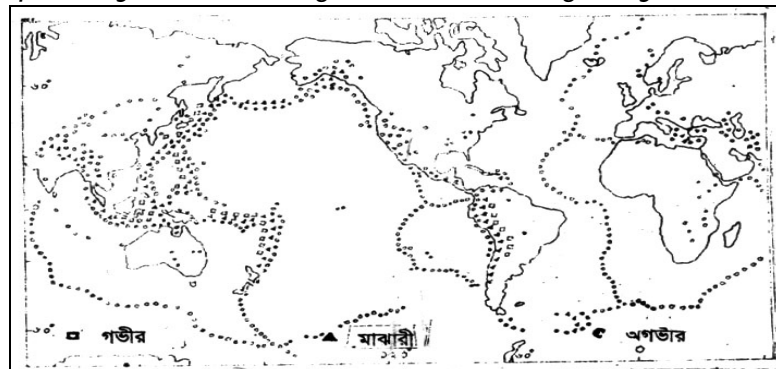
2.10.1 : figK`u`i djvdj

figK`u f;Z`K cwi eZ` Av`b| A`bK mgq figK`u Ni-emio tft`z cto, M`vmj vBb td`U Av`b a`i hvq, we`f jvBb uQto hvq l hvZvqvZ e`e`v b`o n l qvi civkvcnk RbRxe`bi ht`o q`wZ nq| tKv`bv AA`j c`ej figK`u`i c`i `w`q l gnvgwi`Z e`u c`Ynmb N`U| D`j L` th, f;`c`o P`ib`tk me`P`tq f`qenZg figK`u` ,tj v msN`UZ nt`q`Q| 1556 mt`j P`ib`i tmbmvB G`j vKvq figK`u` 8,30,000 tj v`Ki g`Z`nq| 1787 mt`j fvi`Zi Av`m`tg th e`vcK figK`u` nq Zvi d`j c`jvZb e`pc`y b`xi Zj`k D`B`y`n`q hvq, d`j b`xLv`Zi cwi eZ` N`U Ges b`x`u eZ`v`b h`g`v Lv`Z c`e`v`n`Z n`Z `v`K| Rvcv`b eQ`i te`k msL`K evi figK`u` nq| GB msL`v eQ`i 7 n`vR`i`i l te`k| figK`u`i d`j f;Z`K mi`v`mi th cwi eZ` n`Z c`i`i tm` ,tj v n`Q`-K. f;Z`Ki `k`j v`i`i f`uR cov;
 L. f;Z`Ki d`v`Uj ev P`y`Z t`Lv` t` l qv;
 M. b`xi M`vZ cwi e`v`Z` n l qv;
 N. D`P`f`ig a`y`tm `b`e`f`ig`Z cwi YZ n l qv;
 O. ce`P`Zi D`ci `k`j v`c`vZ Ges `ng`v`b`c`vZ n l qv Ges
 P. mg`~`D`c`K`j c`ej R`j v`Q`m N`Uv

2.10.2 : figK`u` AA`j

mvavi Y figK`u` te`k nq `b`P` D`j L`Z AA`j mg`r` :

K. Av`M`q`M`vi AA`j we`tk`l`Z c`k`v`š`l`gn`m`v`M`i`i ce`q c`i`o`g D`c`K`j ;



uP1 2.10.1 : cuLexi figKau ceY Gj vKv

- L. gnvf`kxq Xvj ;
- M. bZb I MVbkxj ceZgvjv ;
- N. `B gnvf`k I gnmvMti i vj b`j ;
- O. ce9 cuog fvi Zxq 0xcccj

mvisk

cej figKtúú dtj f-cđoi A`tfmeK cuieZ8 nq| Rvbgutj cđy 9wZ nq| AvtMqWmii KvOvKwO AAj mgjn teuk figKau nq| fqvenZg figKau,tjv Pxtb ntqtQ| metPtq teuk msL`K evi figKau nq Rvcvrb| ckršlgnvmMti i ce9 cuog DcKj metPtq epr figKau ej q|

cuVvEi gj`vqb 2.10

mVK DĚti i ctk vK (-) uPy w b|

1. figKtúú cti 9wZM0`Gj vKvq vKtmi cĚve teuk t`Lv hvq?

(K) AMgcvZ	(L) b`-b`x
(M) `v9 I gnvqvix	(N) iv`í-NvU
2. metPtq fqven figKau tKvb t`tk ntqtQ?

(K) Pxb	(L) Rvcvrb
(M) BZvj x	(N) fvi Z
3. eQtj teuk msL`Kevi figKau tKvb t`tk nq?

(K) BivK	(L) Bivb
(M) tKvii qv	(N) Rvcvrb
4. figKau tKv_vq teuk AbyZ nq?

(K) fvi Z gnmvMi AAjtj	(L) ckršlgnvmMti i ce9 cuog DcKjtj
(M) A†÷0j qvq	(N) BDti vtc

DĚi : 1| M 2| K 3| N 4| L

msv9B cĚe

1. figKtúú 3wU KviY vj Lj|
2. figKtúú msAv w b|

iPbvj-K cĚe

1. figKau KvK etj? Gi KviY I dj vdj eY8v Kivj|

cW 2.11

AvtMqulMvi

Df`ik`

GB cW tk`l Avciob

- 1 AvtMqulMvi i msAv ej tZ cvi b,
- 1 wefbaec`Kvi AvtMqulMvi i eYb v` tZ cvi teb,
- 1 AvtMqulMvi Kq cKvi Zv vj LtZ cvi teb,
- 1 AMgcvZi KviY eYb Ki tZ cvi teb|

2.11.1 : AvtMqulMvi i msAv l tk`Yne fM

f-Mtf`Zic l Prci cwieZfbi dtj tKv`bv tKv`bv mgq f-Af`š`fi i DEB-Mij Z wefbaec`v`_f-c`toi `g` tKv`bv Ask ev dvUj v` t`q f-Z`Ki Dc`i tevi t`q Avtm| f-Af`š`fi i Mij Z c`v`_p f-c`to tevi t`q Avmvt`K AMgcvZ (Eruption) etj | AMgcvZi dtj AvtMqulMvi i (Volcano) mjo nq| th c`_ AMgcvZ NtU Zv`K Rvj vgly (Crater) etj | maviYZ Rvj vgly v`Nti AMgcvZi dtj jvfv Rtg ce`Zi AvKvi tbq| mZivs f-c`toi `g` tKv`bv Astk AMgcvZi dtj jvfv mAvZ n`q ceZ AvKviti mo fvgjfc`K AvtMqulMvi etj | cW_exi AvtMqulMvi mgn`K vZbiU tk`Yx`Z fM Kiv nq| h_v-

- 1. mjuq AvtMqulMvi ;
- 2. mš AvtMqulMvi ;
- 3. gZ AvtMqulMvi |

2.11.2 : mjuq AvtMqulMvi

thme AvtMqulMvi t`_tK GLbl AMgcvZ nq tm`_tjv mjuq (Active) AvtMqulMvi bvtg cwi vPZ| Zte mjuq AvtMqulMvi mgn`K Zv` i AMgcvZi ai`bi Dci vfiE Kti Avti v`B fivM fivM Kiv n`q`Q| h_v :

- K. **Aveivg AvtMqulMvi** : th mjuq AvtMqulMvi t`_tK AveiZ jvfv tei nq Zv`K Aveivg AvtMqulMvi etj | D`vniY- fga`mvMti i vj cvix Øx`ci ÷ t`bjx AvtMqulMvi |
- L. **mveivg AvtMqulMvi** : mvguqKfvte eU _vKvi ci gvtS gvtS th AvtMqulMvi t`_tK AMgcvZ nq Zv`K mveivg AvtMqulMvi etj | D`vniY- BZvj xi vfmv`qvm| 1879 vL`bvtã BZvj xi vfmv`qvm AvtMqulMvi AMgcvZi dtj, nri vKDtj v`bqvg l cvt`úB bvgK `vj mg` bMi DEB jvfv v`b`P Prci cto m`úY`aYsm n`q hvq|

2.11.3 : mš AvtMqulMvi

thme AvtMqulMvi i AMgcvZ A`bKv b nqib vKš`zh tKv`bv mgq n`Z cvti Zv`K Ngšl (Darmant) ev mš AvtMqulMvi etj | thgb, Rvcv`bi dvRqvgv AvtMqulMvi | 200 eQi

AvtM mefkł dRqivq AMgcvZ ntqUj | Avevi fvel tZ th tKvbr mgq ntZ
cvti |

2.11.4 : gZ AvtMqulMvi

th AvtMqulMvi t_k AZtZ tKvbr GK mgq AMgcvZ ntqUj Zte eZgvtb nq br Ges
fvel tZI Avi nI qri mtebr tbB ZvtK gZ (Dead) AvtMqulMvi etj | D`vniY-
gqvbgviti i tcrcv AvtMqulMvi GKU gZ AvtMqulMvi |

2.11.5 : AMgcvZi KviY

th mg`IKvi tY AMgcvZ NtU Zv nj ;

1. f-ZtK dvtj i ue`gvbZv;
2. f-Af`stii Pvc epx;
3. f-Mtf`Zij ukjvi Av`Z;
4. f-Avt`vj b;
5. f-c`oi Zvc nvm;
6. f-Af`stii cvbi cdek;
7. i vmvqbK uqrv |

mvisk

f-Af`stii Mij Z c`vt_P f-c`to tewi tq AvmvtK AMgcvZ etj | AMgcvZi dtj
AvtMqulMvi mwp nq | AvtMqulMvi t_jv c`vbZ mupq, mŷ Ges gZ GB wZb tkYtZ
uef³ | uewfbec0KuzK Kvi tY AMgcvZ NtU | th ct_ AMgcvZ NtU ZvtK Rjy v gly
etj |

cvtVvEi gj`vqb 2.11

mVK DEti i cvk vK (v) vPy v b |

1. f-Af`stii Mij Z c`vt_P f-c`to tewi tq AvmvtK vK etj ?
(K) j vfv (L) Rjy vgly
(M) AvtMqulMvi (N) AMgcvZ
2. AvtMqulMvi tK c`vbZ KquJ tkYtZ fVM Kiv nq?
(K) `ŷ (L) wZb
(M) Qq (N) mvZ
3. BZvj xi vfmvqum tKvb tkYxi AvtMqulMvi ?
(K) mŷ (L) gZ
(M) Avei vq (N) mvei vq
4. tKvbuJ Avei vq AvtMqulMvi ?
(K) ÷ tŷ x (L) tcrcv
(M) gl brtj vqv (N) wcbUzy

DEti : 1 | (K) 2 | (L) 3 | (N) 4 | (K)

msvŋB cĕce

1| AMġcvŋZi Kvi Ymgŋ-ŋK ŋK?

iPbvġj-K cĕce

1. AvŋMqvlMvi KvŋK eŋj ? Gi tkYmeFvM eYŋv Ki Yŋ|

cW 2.12

AvŋMqvlMvi ej q

Dŋi`k`

GB cW tkŋI Avcib

- 1 AMġcvŋZi dj vŋdj eYŋv KiŋZ cviŋeb,
- 1 cW_exi AvŋMqvlMvi mgŋni Ae`vb Dŋj L KiŋZ cviŋeb|

2.12.1 : AMġcvŋZi dj

mŋj

- 1. AvŋMqvlMvi i AMġcvŋZi dj AŋbK mgq mŋ fŋgi DePZv ewx cvq|
- 2. AMġcvŋZi dj AŋbK mgq vbPyRvqMv mgZj fŋgŋZ cwi YZ nq|
- 3. AMġcvŋZi dj f-Af`šŋi i AŋbK gŋ`evb LvbR c`v`cW_exi Dcwi fvŋM DŋV Avŋm|
- 4. mg`Mŋf`Aew`Z AvŋMqvlMvi i j vŋv Rŋg bZb ŋxc mŋŋ Kŋi |
- 5. AvŋMq M`vm nŋZ ve`y kŋv³ Drcv`b Kiv hvq|

Kŋj

- 1. AMġcvŋZi dj AŋbK mgq fŋgK`u nq|
- 2. AŋbK mgq AMġcvŋZi dj Mŋg, kni, Rbc` aŋsm nq|
- 3. AvŋMq cŋvŋte Dŋ cŋhŋY mŋŋ nq|
- 4. DEycvno ceZ mŋŋ nq hv gvbly emevŋmi AbgŋthMx nq|
- 5. AMġcvŋZi dj DeP Kul. fŋg Abgŋ nŋq thŋZ cviŋi |

2.12.2 : AvŋMqvlMvi mgŋni Ae`vb

cW_exŋZ AŋbK AvŋMqvlMvi AvŋQ| gŋb Kiv nq th, cW_exŋZ cŋŋ 500ŋvi teŋk mŋŋq AvŋMqvlMvi iŋqŋQ| DEi tMj vŋta`vŋŋY tMj vŋta`ŋK teŋk mŋŋq AvŋMqvlMvi | cW_ex cŋŋ mŋŋ AvŋMqvlMvi i msL`v mŋŋq AvŋMqvlMvi t`ŋK AŋbK_Y teŋk| mŋŋq AvŋMqvlMvi ,tjv teŋki fvMB gnvmMi ,tjvi gŋta` ev Avŋk cvŋki GjvKv,tjvŋZ Aew`Z| cŋkŋšl gnvmMiŋK GKUv gvjvi gZ vŋŋi iŋqŋQ AmsL` AvŋMqvlMvi | GB AĀjŋK ZvB cŋkŋšl gnvmMiŋi AvŋMq tgNjv ejv nq| AvŋMqvlMvi ej q I fŋgK`u

ej tqi gvb r P I GK m r t _ t ` L t j e s v h v q t h , A v t M a q u M w i m r t _ f u g K t a u i u b w e o m a u K A v t Q | K v i Y A v t M a q u M w i A M e c v t Z i m g q A v t M a q u M w i A A t j f u g K a u A b y Z n q | m i a v i b Z t h m e A A t j f u R c e Z I P y z i t q t Q t m m e A A t j B A v t M a q u M w i t ` L v h v q | Z t e A v g r t ` i g n r t ` t k u n g v j q c e Z (t h u U G K u U f u R c e Z) A A t j t K v t b v m u p q A v t M a q u M w i m U v b c v l q v h v q u b |

mvisk

A v t M a q u M w i A M e c v Z g v b t j i R b t h g b D c K v i x t Z g u b A c K v i x l | c u _ e x t Z 5 0 0 u U i g Z m u p q A v t M a q u M w i i t q t Q | t h A v t M a q u M w i _ t j v c k r s i g n v m v M i t K g v j v i g Z u N t i t i t L t Q Z v t K o c k r s i g n v m v M i i A v t M a q t g N j v o e t j | A v t M a q u M w i m r t _ f u g K t a u i u b w e o m a u K i t q t Q | u n g v j q c e Z G j v K v q t K v t b v m u p q A v t M a q u M w i m U v b c v l q v h v q u b |

c v t V e i g j v q b 2.12

m u K D E t i i c v t k u K (\) u P y u b |

- 1 c u _ e x t Z K Z u U m u p q A v t M a q u M w i A v t Q e t j a v i Y v K i v n q ?
 (K) 300 u U i t e n k (L) 400 u U i t e n k |
 (M) 500 u U i t e n k (N) 600 u U i t e n k |
2. A v a K v s k m u p q A v M a q u M w i i A e v b t K v _ v q ?
 (K) m g Z j f u g t Z (L) g i y G j v K v q
 (M) t g i y A A t j (N) g n v m v M i _ t j v A v t k c v t k
3. A v t M a q u M w i i m r t _ t K v b u U i u b w e o m a u K t h t Q ?
 (K) R j i u k i (L) f u g K t a u i
 (M) e v q g U t j i (N) L u b R m a u t ` i

D E i : 1 | M 2 | N 3 | L

m s u t j B c k e

- 1 | A M e c v t Z i m g d j u K ?
- 2 | A M e c v t Z i K e d j u K ?

i P b u j - K c k e

1. A M e c v t Z i K v i Y I d j v d j e Y b v K i t y |

cW 2.13

ceZ

Dt`ik`

GB cW tk`l Avci`b

- 1 ceZi msAv w` tZ cvi`teb,
- 1 ceZi tkYmevRb ej tZ cvi`teb,
- 1 wefba`Kvi ceZi weiy w` tZ cvi`teb/

2.13.1 : ceZ

f₇-Zt`Ki Dcwi fivM AwZ D`P we`Z I Lvov Xij mn figtK ceZ (Mountain) etj | f₇-Avt`vj b, f₇-Zt`Ki wefba`q, Avt`Mqumvi i AMgcvZ cfwZ. Kvi tY, f₇-c`o wefba` AvKwZ. I `enkto`i ceZ t` Lv hvq|

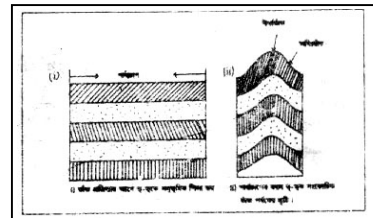
2.13.2 : ceZi tkYmevM

Mv`bi `epI Abviti ceZtK cu`u tkYtZ fivM Kiv hvq| thgb- 1| fivZj ceZ, 2| `e ceZ, 3| Avt`Mq ev m`AqRvZ ceZ, 4| M`B ev j`vtKvuj _ ceZ, 5| qRvZ ceZ|

wefba`kYxi ceZi weiy

1. fivZj ceZ

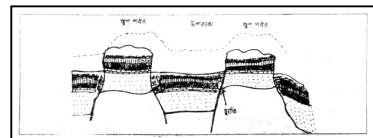
c`ej cvkPitci dtj KLbi KLbi f₇-c`o K`tK hvq| GBfite K`Kv`bv AvKvi aviY Kivi mgq f₇-Zt`Ki DaYvR Ges Aa:fUR m`o nq| GB D`y f₇-fUR, tj vtK fivZj ceZ etj | AafUR, tj v DcZ`Kv m`o Kti | cu`exi eo eo ceZgij v thgb-`ingvj q, Aví m, i`K, Avv`R BZ`w` fivZj ceZi D`vniY|



epI 2.13.1 : fivZj ceZ

2. `e ceZ

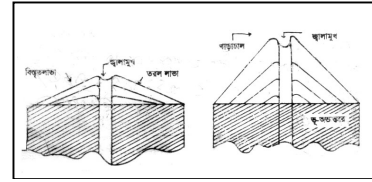
f₇-Avt`jvotbi mgq I Ab`vb` Kvi tY f₇-c`o c`ej cvkPitci m`o ntj tKv`bv tKv`bv mgq f₇-Zt`Ki tKv`bv `k jv`li Lvovfite Dci t`tK v`b`Pi w`tK t`tU hvq| GtK P`yZ etj | P`yZ m`oi dtj `B cvtki `k jv`li i gvtS mgZv b`o ntq hvq| ZLb A`tbK mgq `B P`yZi ga`fivM fig v`b`P etm v`M`q m`o Kti M`S` DcZ`Kv| M`S` DcZ`Kvq `yvtki D`y`k jv`le`K `e ceZ etj | `e ceZi D`vniY- cvk`t`bi jeY ceZ|



epI 2.13.2 : `e ceZ

3. AvtMq ev mÂqRvZ ceZ |

AMocvtZi mgq AvtMqWwi i Rvj vgy w`tq tei n`tq Avm Mij Z jvf, QvB, M'vm BZ`w` axti axti VvUv I KwB n`tq f-ctô Rgv n`tZ _vtK | Gfite evi evi AMocvtZi dtj Rvj vgytK w`ti `ti `ti jvf mWAZ n`tq ceZ Mto I tV | GB aitYi ceZtK AvtMq ev mÂqRvZ ceZ etj | Rvcvbi dR ceZ GKBFite n`tqQj |



পট 2.13.3 : AvtMq ceZ

4. j`vtKvj_ ev MqR ceZ

AtbK mgq cW_xi wFZti Mij Z ukjv wvfbM'v`mi mrvth` f-ctô tei n`tq Avmvi tPov Kti | wKšztKv`bv tKv`bv mgq G_tjv f-ctô tei n`tZ bv tcti f-ctô i wbtP tKv`bv GK RvqMvq RgvU evta Ges Day`lx P`vci dtj Dcti i ukjv`li dtj D`v M`Ri Avkvi tbq | GBfite th ceZi mW nq ZvtK j`vtKvj_ ev MqR ceZ etj | thgb- h`y i v`to i `wY BDUn-Gi tnbix ceZ |

5. qRvZ ceZ

f`wzj, `e I AvtMq ceZi big ukjv_tjv tiv`, ev, evqctvZ. c`KwZK kw`i mrvth` q`c`B nq | GBfite q`tq w`tq gj- ceZ ev gvj fvgi th Ask evKx _vtK tmB q`c`B tQvU ceZtK qRvZ ceZ etj | thgb- h`y i v`to i tgvvWb_ ceZ |

mvisk

f-ctô i w`Y`AAj R`p Avkiv tQvU AvZ D`P KwB ukjv`e`tK ceZ etj | mrvvYZ 4,000 wglvi I Zvi Dcti i D`PZv wvko ukjv`e`B ceZ | MVtbi `evP Abv`ti ceZtK c`vU tkYtZ wv` Kiv nq | GB c`v tkYxi ceZi bvg nj f`wzj ceZ, `e ceZ, AvtMq ev mÂqRvZ ceZ, j`vtKvj_ ceZ I qRvZ ceZ | cW_xi eo eo ceZ_tjv f`wzj ceZ tkYxi Ašf |

cuVvEi gj`vqb 2.13

mWk DEti i cutk Wk (v) wPy w b |

1. f-Z#Ki Dcwi fvMmi AwZD`P we`Z I Lvov Xij mn fig#K Wk etj ?
 (K) Wj v (L) cwnvo
 (M) ceZ (N) gjj fig
2. MV#Yi `ewP` Abyv#i ceZ, tj vtK Kq tkY#Z wef³ Kiv nq?
 (K) `B (L) WZb
 (M) Pvi (N) cutB
3. wngvj q tKvb tkYxi ceZ?
 (K) fvWj (L) `eRvZ
 (M) mÂqRvZ (N) ¶qRvZ
4. tKvbW mÂqRvZ ceZ?
 (K) cWk`l#bi jeYceZ (L) Rvc#bi d#RceZ
 (M) h#i vtó#i tnbwi ceZ (N) h#i vtó#i tgvbW&b_`ceZ

DEi : 1 | M 2 | N 3 | K 4 | L

msw¶B cutce

1. ceZ Kv#K etj ?
2. ce#Zi tkYwefvM t`Lvb |
3. ¶qRvZ ceZ Wk?

iPbwj-K cutce

1. ceZ Kv#K etj ? msÁvvn ce#Zi tkYwefvM t`Lvb |

cW 2.14

gvj fig

Dfík

GB cW tkfI AvciB

- 1 gvj fig KvK etj Zv ej tZ cvi teb,
- 1 gvj figi tkYmeFvM, tji vi big ej tZ cvi teb,
- 1 weFbaCKvi gvj figi eYDv Ki tZ cvi teb|

2.14.1 : gvj fig

mg^{~a} mgZj t_~tK Dp_~tZ Aew[~]Z we[~]ky[~]figtK gvj fig (Plateau) etj | gvj fig mvaviYZ wZb ai tbi 1. ceZ-ga[~]eZx[~]gvj fig 2, cv[~] t[~] kxq gvj fig I 3. gnv[~] kxq gvj fig|

- 1. **ceZ-ga[~]eZx[~]gvj fig** : th me gvj figi Pwi w[~]tK ceZ[~] v[~]tK Zv[~]tK ceZ-ga[~]eZx[~]gvj fig etj | mvaviYZ ceZ[~] m[~]oi mgq GB gvj fig, tji v Mto I tV | G[~], tji vi D[~]PZv c[~]iq 3,000 t_~tK 45,000 w[~]Uvi nq | wZeY[~]tZi gvj figi Pwi w[~]tK ceZ[~] i tqtQ | Gw[~] GKw[~] ceZ-ga[~]eZx[~]gvj fig|
- 2. **cv[~] t[~] kxq gvj fig** : e[~]o ingevn A[~]ev b[~]xi c[~]mb cvnv[~]toi Mv tetq w[~]tP b[~]gvi mgq cvnv[~]toi w[~]kj vi w[~]k P[~]Y[~]K[~]ti c[~]Py Zj w[~]b etq Av[~]tB | q[~]qc[~]oB Zj w[~]bi m[~]nv[~]th[~] ce[~]f[~]Zi cv[~] t[~] t[~]k th gvj figi m[~]o nq Zv[~]tK cv[~] t[~] kxq gvj fig etj | GB ai tYi gvj figi GKw[~] tK mgZj fig ev m[~]Mi t[~]Lv hvq | DEi Av[~]t[~]g[~]wi Kvi K[~]tj vi v[~]tWv gvj fig cv[~] t[~] kxq gvj figi D[~]vni Y|
- 3. **gnv[~] kxq gvj fig** : gnv[~] kxq gvj fig, tji v mvaviYZ m[~]Mi A[~]ev w[~]bPy fig w[~] t[~]q t[~]Niv[~] v[~]tK | Gi m[~]t[~] ce[~]f[~]Zi t[~]Kv[~]t[~]bv m[~]u[~]K[~] v[~]tK bv | Av[~]i e, t[~]ub, A[~]t[~] ÷ t[~]j qv I fvi Zxq Dc[~]o[~]xc gnv[~] kxq gvj figi D[~]vni Y| ew[~]:k[~]w[~]i dtj q[~]qc[~]oB n[~]tq A[~]t[~]BK mgq gvj fig ceZ[~] I Dc[~]Z[~]Kvq c[~]wiYZ nq | GB ai tYi gvj figtK e[~]ew[~]Qb[~]e gvj fig etj | thgb c[~]ixi I w[~]Y[~]Y[~]tZ[~]i gvj fig|

mvisk

gvj fig ej tZ D[~]P mg[~]figtK e[~]svq | gvj figi D[~]PZv mg[~]z[~]o n[~]tZ K[~]tqKk d[~]h n[~]tZ K[~]tqK n[~]vRvi d[~]h ch[~]l nq | mvaviYZ gvj figi PZ[~] w[~]K w[~]b[~]fig v[~]tK | ce[~]f[~]Zi kxl[~] k q[~]qc[~]oB n[~]tq w[~]Ksev f[~]Av[~] v[~]j tbi dtj gvj figi m[~]o nq | gvj fig, tji v[~]tK

câvb wZbuU tkYtZ wef³ Kiv nq| h_v- ceZ ga`eZP gij fig, cv`t`kxq gij fig
Ges gnv`kxq gij fig| c_w_eri mteP cvgxi gij fig Gikqv Aew`Z|

cvWĒi gj`vqb 2.14

mWK DĒi i cvk WK (v) wPy w b|

1. mg²mgZj t_tK DĒjZ Aew`Z we`kYmgZj figtK WK etj ?

- (K) mgfig
- (L) gvj fig
- (M) DcZ`Kv
- (N) wwi c_

2. gvj figtK mvavi YZ KqfvM fM Kiv hvq?

- (K) 2
- (L) 4
- (M) 3
- (N) 5

3. tKvbuU ceZ ga`eZP gij fig?

- (K) weYz
- (L) cvgxi
- (M) Ktj vi vWv
- (N) cvZvMugqv

4. At÷ij qv, Avie l t`ub cfwZ. tKvbuU gij figi D`vni Y?

- (K) cieZ` gij fig
- (L) ceZ ga`eZP gij fig
- (M) cv`t`kxq gij fig
- (N) gnv`kxq gij fig

5. c_w_eri mteP gij fig ōcvgxi' tKvbuU gnv`tk Aew`Z?

- (K) AvdKv
- (L) Gikqv
- (M) BDtivc
- (N) DĒi Avtgwi Kv

DĒi : 1| L 2| M 3| K 4| N 5| L

mswB cĕæ

1| gvj fig KvK etj ?

iPbvj-K cĕæ

1. gvj figi tkYme fM eYv Kiy|

mvisk

we`Z mgZj ev cŃq mgZj vb`fugtk mgfug etj | mgfug mg`a cŃoi cŃq mgZtj
uKsev `f DtaAe`vb Kti | Ńq, mÂq, f;Avt`vj tbi dtj mgfugi mŃ nq | MVb
cKwZ. AbŃvq mgfugtk wefbaetkYtZ fVM Kiv nq | Gt`i gta`cŃeb, e-Ńxc, nŃ,
DcKjxq ingein, jvf, tjvtqm ŃqcŃB mgfugi bvg Dtj LthVM | evsj vt`tki
tenki fVM AÂj B cŃeb mgfug |

cŃVvEi gj`vqb 2.15

mŃK DĚti i cŃk uK (Ń) vPy Ńb |

1. mg`a mgZtj i cŃq mgvb D`PZvq Aew`Z mŃe`Z `j fVMtk uK ej v nq?
 (K) uJj v (L) ceZ
 (M) mgfug (N) gvj fug
2. e-Ńxc mgfug tKv_vq Mto I tV?
 (K) ceZ PŃvq (L) cvntoi cv`t`tk
 (M) gi gq Gj vKvq (N) b`x ev mŃMti i tgvbvg
3. mgfug uKfite MŃZ nq?
 (K) Ńq, mÂq I f;Avt`vj tbi dtj (L) AvtMqŃMŃi i Kvi tY
 (M) fugKt`ú i dtj (N) So-Rtj v`Qvtmi dtj

DĚi : 1 | M 2 | N 3 | K

msuŃB cŃe

1 | mgfugi ai Ymgn uK uK?

iPbvj-K cŃe

1. mgfug Kvtk etj ? mgfugi MVb cŃuqv eYŃv Ki ty |