

Weightage to Contents

உயிரியல் - விலங்கியல்

வ. எண்	பாடம்	ஒரு மதிப்பெண்	மூன்று மதிப்பெண்
1.	உடற்செயலியல்	4x1	2x3
2.	நுண்ணுயிரியல்	3x1	1x3
3.	நோய்த்தடைகாப்பியல்	1x1	2x3
4.	தற்கால மரபியல்	2x1	3x3
5.	சுற்றுச்சூழல் அறிவியல்	2x1	1x3
6.	பயன்பாட்டு உயிரியல்	3x1	2x3
7.	பரிணாமக் கோட்பாடுகள்	1x1	1x3

xUkjpg]bgz; tpdhf;fs; :

1. clw;braypay;

1. cztpy; g[ujf; Fiwghl]odhy; Vw;gLk; neha;
(m) bghpbghp (M) hpf;bf]!; (.) ,uj;jr] nrhif (<) Fth#pahh]f;fh]
2. xU fpuhk] ypg]gpoy; cUthFk] fnyhhpfs; mst[
(m) 9.3 fnyhhpfs; (M) 8.2 fnyhhpfs; (.) 7.1 fnyhhpfs; (<) 6
fnyhhpfs;
3. itl]lkpd; 'D' Fiwghl]odhy; cz;lhfK] neha;
(m) epf;nlhnyhg]gpah (M) rpuhg]jhy;kpah (.) M!;onahknyrpah (<)
bgy;yf;uh
4. neha; jLg]ghw;wy; mspg]gJ vJ>
(m) itl]lkpd; A (M) itl]lkpd; K (.) itl]lkpd; C (<) itl]lkpd; D
5. fodj; bjhHpy; bra;a[k] IRM - k] bjhHpy; bra;a[k] nghJ njitg]gLk] fnyhhpfs; mst[vd;d>
(m) 1100 fnyhhpfs; (M) 750 fnyhhpfs; (.) 2200 fnyhhpfs; (<) 460
fnyhhpfs;
6. ;jd; Fiwghl]lhy; ;izg]g];jpR g[ujq;fs; jahhpg]g[gh]pg]gila[k]
(m) itl]lkpd; E (M) itl]lkpd; B₁ (.) itl]lkpd; C (<) itl]lkpd; B₁₂
7. xU fpuhk] fhh]nghiQl]nul]oy; cUthFk] fnyhhpfs; mst[
(m) 6 fnyhhpfs; (M) 9.3 fnyhhpfs; (.) 8 fnyhhpfs; (<) 4.1 fnyhhpfs;
8. itl]lkpd; eahrpd; Fiwtpdhy; Vw;gLk] neha;
(m) ,uj;jr] nrhif (M) !;fh]tp (.) bgy;yf;uh (<) rpnuh!p!;
9. itl]lkpd; A - apd; Kf;fpa ntiy
(m) vYk]g[tsh]r]rp (M) ,uj;jk] ciwjy; (.) fz;ghh]it czh]t[(<) Mw;wy; cw;gj;jp
10. ja ,af;fq;fs; Jiz bra;a[k] jdpkq;fs;
(m) bghl]lhrpaKk; fhy;rpakK] (M) nrhoaKk] bghl;lhrpaKk]
(.) FnshhpDk; nrhoaKk] (<) mnahoDk] FnshhpDK]
11. fiza mikny!;/ !;lhh]r]jir ----- Mf khw;WfpwJ.
(m) Rf;nuh!; (M) khy;l]nlh!; (.) yhf;nlh!; (<)
gpuf;nlh!;
12. ghy; g[nuhl]Od; (ghy; g[ujk] kPJ bray;gLk] behjp
(m) bgg]rpd; (M) budpd; (.) iyg]ng!; (<)
vhpg]!pd;
13. oiunahRfs; vd;gJ
(m) @gpuf;nlh!; (M) fhyf;nlh!; (.) fpspruhy;oiQL (<)
FSf;nfh!;
14. jirfspYk]/ fy;yPuypYk] fhzg]gLk] Tl]Lr]rh]f;fiu

- (m) !;lhh]r] (M) bry;Ynyh!; (.) Mf;!p\$d; (<) fpisf;nfh\$d;
15. .uj;jr] rptg]gqf;fis Kjph]r]rpailar] bra;a cjt[k] itl]lkpd;
(m) itl]lkpd; D (M) itl]lkpd; E (.) itl]lkpd; B₆ (<) itl]lkpd;
B₁₂
16. Kjpnahh]fspd; cly;epiw vz;zpd; mst[tiuaiw vd;d>
(m) 10 - 15 (M) 12 - 24 (.) 15 - 20
(<) 19 - 25
17. tpHpg]gly vgp;j]Pypak] RUq;Fjyile;J fodg]gl]L fhzg]gLk] epiy
(m) rpnuhg]jhy;kpah (M) rpnuhrp!; (.) bful]nlhknyrpah (<) M!;onahknyrpah
18. jpde;njhWk] Ruf;fg]gLk] ckpH;ePhpd; mst[
(m) 1000 -1500 kp.yp (M) 1000 -1700 kp.yp (.) 1000 -1800 kp.yp
(<) 1000 -1900 kp.yp
19. itl]lkpd; B₁ Fiwghl]lhy; Vw;gLtJ
(m) bgy;yf;uh (M) bg hp bg hp (.) !;fh]tp (<) hpf;f]l!;
20. mikg]g[g] g[u]j;jpw;F xU cjhuzk]
(m) Qhh]nkhhd;fs; (M) jirfs; (.) ,uj;jk] (<) vdirk]fs;
21. Eiu]j;yy; vDk] vky;rpg]gpf;nfrdpd; nghJ bfHGg]gpd; khw;wk;
(m) Jfs;fs; (M) vz;bza; (.) ifnyhikf;uhd;fs; (<) kpy;yp ikf;uhd;fs;
22. gy; nth]f; FH y; rpfpr]irapd; nghJ gy; FHpapDs; epug]g[k] gir
(m) ifl]od; (M) fhy;rpak] fhh]gndl] (.) mnahilL cg]g]fs; (<) fl]lhbg]rh burpd;
23. gpj;jf; fw;fis cUthf;FtJ
(m) fhy;rpak] (M) ghjpf;fg]gl] jpRf;fs; (.) bfhy!;!uhy; (<) nrhoag] gofq;fs;
24. bgUk]ghYk] Fly;g[z;iz Vw;gL;Jk] ghf;Ohpak]
(m) rhy;khdy;yh (M) bQypf;nfhngf;lh] ignyh hp
(.) mrpl]nlhghf;lh] mrpl]jo (<) vh]rpdpah bg!;o!;
25. .iug]igapd; Rtiu HCl mkpyj;jpd; ghjpg]gpypUe;J ghJfhg]g]
(m) bgg]rpd; (M) budpd; (.) nfhiHg]bghUs; (<) ypg]ng!;
26. .iug]igapDs; HCl mkpyj;j] Ruf;Fk; bry;fs;
(m) kh!;l] bry;fs; (M) Kf;fpa bry;fs; (.) Mf;!pd;of; bry;fs; (<) bfHGg]g] bry;fs;
27. vYk]g[Kwptpw;Ff; fhuzk]
(m) mjph]r]rp (M) ,uj;j Xl]! ,Hg]g[(.) tpirapd; jhf;fk] (<) Fiw czl]l]k]
28. vYk]g[Kwpe;j gF]piar] Rw;wp cUthFk] jpRj; bjhFjp

- (m) Kor]R (M) ePl]rpfs; (,) \yf;TW (<) fhy!;
29. rpdhtpay; glyj;jpy; Vw;gLk] ghjpg]g[
(m) bjhw;W \]Ltyp (M) KHq;fhy; \]Ltyp (,) Ukh]of; \]Ltyp (<) tsh]rpij \]Ltyp
30. nrhoak] a{nul] gofq;fs; \]Lfs; gotjhy; Vw;gLtJ
(m) Unkl]of; \]Ltyp (M) bfs] (,) M!;onah Mh]j;hpl]o!; (<) hpf;f]!;
31. neha;epiy vYk]g[Kwpt[Vw;glf; fhuzk]
(m) iQgh] ghuhijuha;ork] (M) iQngh ghuhijuha;ork]
(,) iQngh ijuha;ork] (<) iQgh] ijuha;ork]
32. vjdhy; QPk]nlhkh cz;lhfpuJ>
(m) khuilg]g[(M) brhpj;jy; (,) vYk]g[Kwpt[(<) jir nrhh]t[
33. jirfs; RUq;Fk] nghJ V.o.gp (ATP) \yf;TWfs; ;iza[k] ,lk
(m) iknahrpd; ,iH (M) knahiggphpy;fs; (,) euk]g[Kid (<) Mf;od; ,iHfs;
34. jirapd; RUf;fj;jpw;Fj; njitahd fhy;rpak] madpfis btspapLtJ
(m) ,uj;jk] (M) g[nuhl]nlhgps]hrk] (,) rpdhtpay;glyk] (<) rhh]nfhgps]!;kpf; tiy
35. hpfh] kh]orpd; nghJ jirfs; cs;s g[ujj;ij mHpf;Fk] bghUs;
(m) g[nuhonah iyof; behjps; (M) ik]nlhfhz;ohpay; behjps; (,) iynrnrhk;fspd; behjps; (<) v!;l]nur!;
36. euk]g[j; jir re;jpg]gpy; btsptplg]gLk] ntj]pg]bghUs;
(m) fhy;rpak] gh!;ngl] (M) mrpily;bfhiyd; (,) fpis;nfh g[ujk] (<) bgh]l]hrpak] FnshiuL
37. blunlhyh\$pf; FiwghL vt;tif \]L eGt]jiyf; Fw;pf;fpwJ
(m) tpgj;J (M) fd;b\$dp]l]y; (,) neha; (<) gf;fthjk]
38. jirr]RUf;fk] gw;wpa efUk] ,iH fUj;Jf; bfhs;ifiaf; Twpath]fs;
(m) rpq;fh] kw;Wk] epf;nfh;rd; (M) tpy;ypak] Qhh]tp (,) Qhz;rd; kw;Wk] Qf;!;ny (<) Qpg]nghfpnu]l]!;
39. fPH;f;fhqk] madpfspy; vJ jirr]RUf;fj;jpw;fhd ntj]papay; bray;fis Jtf;Ffpd;wJ
(m) nrhoak] (M) fhy;rpak] (,) bgh]l]hrpak] (<) FSf;nfh!;
40. neha[w;w xUtuh; fhw;wpy; bjs;pf;fg]gLtjd; \yk] gut[k] neha;
(m) rpgpyp!; (M) fhrneha; (,) fhyuh (<) ikah!;jPdpah fpuhtp!;
41. lr]R rpw;wiwapy; Mf;!p\$dpd; gFjp mGj;jk]
(m) 100 m.m.Hg (M) 140 m.m.Hg (,) 40 m.m.Hg (<) 46 m.m.Hg
42. irD - Mhpf;Fyhh] fq mike;Js;s ,lk]
(m) tyJ V]l]hpak] (M) ,lJ V]l]hpak] (,) tyJ btz;l]hpfps; (<) ,lJ btz;l]hpfps;
43. gpd;tUtdtw;Ws; ve;j cWg]g[ng!;nkf;fUld; bjhl]g]ilaJ

- (m) \is (M) rpWePufk] (,) Eiuapuy; (<) ,jak]
44. ,uj;jf; fl]oapd; xU rpW Jzpf;if ,uj;j Xl]lj;jpy; ,lk] bgah]e;jhy; mJ ,t;thW
miHf;fg]gLfpwJ.
(m) nghy!; (M) vk]nghy!; (,) brhpgpuy; Jnuhk]ngh!p!; (<) fnuhdhp
Jnuhk]ngh!p!;
45. cly; eyKila xUthpd; ,ay;ghd ,uj;j mGj;jk]
(m) 130/ 90 mm Hg (M) 100/ 70 mm Hg (,) 120/ 80 mm Hg (<)
160/ 95 mm Hg
46. ,uz;lhtJ ,ja xyp (lg] ----- \Ltjhy; Vw;gLfpwJ.
(m) miu re;jpud; thy;t[fs; (M) <hpjH; thy;t[
(,) Vl]hpnah btd;l]hpFyhh] thy;t[fs; (<) \tpjH; thy;t[
47. bghpa bts;isaqf;fs; vit>
(m) nkhndhir]Lfs; (M) ypk]nghir]Lfs; (,) epa{l]nuh@gpy;fs; (<)
ngnrh@gpy;fs;
48. bts;isaqf;fs; kpr]rpwpait.
(m) ,nahrpndh@gpy;fs; (M) epa{l]nuhgpy;fs; (,) ypk]nghir]Lfs; (<)
nkhndhir]Lfs;
49. @iggphndh\$d; vDk] g[nuhl]Od; fiuah g[nuhl]Odhfpa @iggphpd; vDk]
bghUshf
khWtjw;F njitg]gLk; vd;irk;
(m) g[nuhJnuhk]gpd; (M) Jnuhk]gpd; (,) g[nuhJnuhk]gpnd!; (<)
Jnuhk]nghifnd!;
50. ,uj;jk] ciwjYf;F njitahd jdpkk]
(m) nrhoak] (M) mnahod; (,) fhy;rpak] (<)
bgh]lhrpak]
51. ,lJ kw;Wk] tyJ bgU\is miut]l nfhsq;fSf;F ,ilna bra;jpfs; ghpkhwf; bfhs;s
cjt]J
(m) fhh]g!; my;gpfd;!; (M) fhh]g!; Y]l]oak] (,) fhh]g!; !;onual]lk] (<) fhh]g!;
fnyhrk]
52. ,J lad;brgyhdpd; bgUk]gFjpahFK]
(m) bgU\is (M) bgU\isapd; g[wzp (,) iQnghjyhk!; (<) jyhk!;
53. xU jPtpu \isf; FiwghL ,t;thW miHf;fg]gLfpwJ
(m) mk]dPrpah (M) ikah!;jPd pah fpuhtp!; (,) my;!Pkpah] neha; (<)
gf;fthjk]
54. bgU\is g[wzp braypHg]g[ve;neha]ld; bjhlh]g[ilaJ
(m) \is fha;r]ry; (M) mk]dPrpah (,) ikah!;jPd pah fpuhtp!; (<)
my;!Pkpah] neha;

55. \isapDs; Rthrf; fl]Lg]ghL ikak] cs;s gFjp
 (m) EiuAPuy; (M) KFsk] (,) rpW\is (<)
 bgU\is
56. \isapy; cwf;fj;jpw;Fk;/ Rthrj;jpw;Fkhd ikag]gFjp ,Uf;Fkplk]
 (m) jyuk!; (M) ilad;br@gyhd; (,) ghd;!; (<)
 iQnghjyh!;
57. Rthrj;ij mjpfhpf;fr] bra;J \is tpHpg]g[zh]itj; J}z;Lk] Qhh]nkhd;
 (m) kpduyh fh]ofha;L (M) ml]hPdypd; (,) eh] - ml]hPdypd;
 (<) fh]orhd;
58. iQgh]fpisrPkp; Qhh]nkhd; vd miHf;fg]gLtJ
 (m) ,d;Rypd; (M) ml]hPdypd; (,) FSf;nfhfhd; (<)
 ijuh;!pd;
59. fh]g!; Y}]oaj;jhy; Ruf;fg]gLk] Kf;fpa Qhh]nkhd;
 (m) g[nuhb\$!;onuhd; (M) <!;]nuh\$d; (,) hpyhf;!pd; (<)
 Mf;!pnlhrpd;
60. fpnutpd; nehapd; kWbgah]
 (m) ePhpHt[(M) ijnuhlf;!pnfhrp!; (,) fphpl]odprk] (<)
 Fs;s;j;d;ik
61. jhJ fye;j fh]ofha;Lfspy; Kf;fpakhdJ
 (m) my;n!h!;Onuhd; (M) fh]on!hd; (,) nfl]onfhyikd; (<)
 ml]hPdypd;
62. mrpd!; vd;wiHf;fg]gLk; ijuha;L ghyf;fps;fspd; Xuj;jpy; mike;Js;s bry;fs;
 (m) ,dr]bry; vg]gpjPypay; bry; (M) mLf;F vg]gpjPypad;
 bry;fs;
 (,) iknah vg]gpjPypay; bry;fs; (<) fdrJu vg]gpjPypa
 Rug]g[bry;fs;
63. \isapd; kpd;ndhl]l miyt[fis gjpt[bra;a cjt[k] fUtp
 (m) vyf;!]nuh fh]onahfpuhk] (M) vyf;!]nuh
 vd;br@gnyhfpuhk]
 (,) vf;nfh fh]onahfpuhk] (<) vd;n!h!;nfhg]gp
64. It[d;!; neha; FwpaPI]Lld; bjhlh]g[ila neha]>
 (m) mk]dPrpah (M) my;!Pkpah (,) my;gpdprk]
 (<) ,uj;j nrhif
65. iQngh ghuhijuha;orj;jhy; Vw;gLtJ
 (m) fphpl]odp!k] (M) bl]l]zp (,) kpf;!pokh (<)
 fPI]nlhrp!;
66. epiyg]gLj;jg]g]l] mdpr]jir braiy ep+gpf;f Kjypy; nrhjid bra;jth]
 (m) X. bQh]l]tpf; (M) ltd; ng;nyht; (,) T.H. kh]fd; (<) B.
 rk;dh]
67. \isapd; vg]gFjp mira[k] bghU]fspd; gh]it ghij bjhl] cjt[fpwJ >
 (m) nky; nfhyfyp (M) fPH; nfhyfyp (,) rpW\is (<) Kj;d;ik
 ,af;fg]gFjp
68. rpWePhpy; fhzg]gLk] a{hpah mst[

- (m) 2% (M) 2. 5% (,) 2.7%(<) 2. 8%
69. rpWePuf igapy; njhd;Wk; fw;fis mfw;w gad;gLj;jg]gLk; rpfpr]ir Kiw
(m) ,uj;j CL gFg]g[(M) khw;Wg]ghij mWit
rpfpr]ir
(,) ypj;njhohpg]rp (<) rpWePuf
khw;W mWit rpfpr]ir
70. \isapd; ,uj;jf; FHhapy; ,uj;jk] ciwjy; epfH;r]rp eilbgw;why; Vw;gLtJ
(m) jpnuhk]nghrp!; (M) gf;fthjk] (,) fnuhdhp jpnuhk]nghrp!; (<)
vk]nghy!;
71. ekJ clypd; bkhj;j njhypd; nky; gug]g[
(m) 1. 1- 2. 2 kP² (M) 2. 2 - 3. 3 kP² (,) 1 - 2 kP²
(<) 0. 5 - 1.5 kP²
72. rPgk] vd;w vz;bza; bghUisr] Rug]gJ
(m) tpah]itr] Rug]gp (M) brngrpa!; Rug]gp (,) ijuha;L Rug]gp
(<) fz;zPh]r] Rug]gp
73. Fiwt[s;s my;gpdprk] cz;lhff; fhuzk]
(m) Ya[f;nfhblh]kh (M) itl]oypnfh (,) bkyndhkh (<)
blh]khl]o!;
74. my;gpdprk] vd;gJ
(m) mjpf mst[epwkpfs; (M) Fiwe;j mst[epwkpfs;
(,) epwkp cUthf;fj;jpy; FiwghL (<) tha; nk;g[w epwkpfs;
75. mjpf mst[g[wC]jh;f;fjph]fspd; jhf;fj;jpdhy; cz;lhtJ
(m) the;jp (M) fz;fs; rptg]ghFjy; (,) epwkhw;wk] (<)
njhy; g[w;Wneha;
76. J]uj;jpw;nfw;wthW jhnk Ftpjd;ikia khw;wpaikj;Jf; bfhs;Sk] kdpj tpHpapd;
jd;ikf;F
vd;d bgah]>
(m) nghl]nlhgpf;ghh]it (M) !;fhl]nlhgpf;ghh]it (,) tpHpapd; Vw;gikt[(<)
m!;of;nkl]ork]
77. fz;zpd; Fr]rp bry;fspd; btspg]g[wg] gFj]papy; fhzg]gLk; epwkp
(m) g[uj Mg]rpd; (M) buhlhg]rpd; (,) @nghl]lhg]rpd;
(<) Mg]nrhdpd;
78. Jhpj fz; mirt[fSld; Toa cwf;fk] ePof;Fk] fhyk]
(m) 10 - 40 epkplk] (M) 02 - 20 epkplk] (,) 15 - 35 epkplk]
(<) 05 - 30 epkplk]
79. brtpapDs; bkGfpidg] Rug]gJ
(m) g[wr]Rug]gp (M) gFj]pr] Rug]gp (,) tpah]itr] Rug]gp
(<) brUkpdy; Rug]gp
80. fh]il cWg]g[mike;Js;s ,lk]
(m) ngrpyhh] rt;t[(M) bua;!;dh] rt;t[(,) gpsh!;kh rt;t[(<)
brtpg]giw rt;t[
81. fz;zpd; Tk]g[bry;fspy; cs;s g[ujk]

- (m) Mg]rpd; (M) !;nfhlhg]rpd; (,) nghl]lhg]rpd;
 (<) kpa{nfh g[ujk]
82. caphpay; jahhpg]g[Kiwapy; a{hpah cUthf;Fk] ,lk
 (m) fizak] (M) rpWePufk] (,) fy;yPuy;
 (<) ,uj;jk]
83. xU ehspy; rpWePh] tHpna btspnaWk; a{hpahtpd; mst[
 (m) 40 fpuhk] (M) 50 fpuhk] (,) 20 fpuhk]
 (<) 25 fpuhk]
84. fz;zpw;Fs; cs;s jput mGj;jk] mjpfhpg]gjhy; Vw:gLk] neha;
 (m) iknahgpah (M) fz;f]o (,) fd;\$f;otpo!; (<) fpushf;nfhkh
85. 100 kp.yp ,uj;jj;jpy; a{hpahtpd; mst[
 (m) 0.02 fpuhk (M) 0.06 fpuhk (,) 0.08 fpuhk
 (<) 0.04 fpuhk
86. mk]nkhdpahit a{hpahtf khw;wj; njitg]gLk] ATP \yf;TWfspd; vz;zpf;if
 (m) ehd;F (M) ,uz;L (,) \d;W
 (<) xd;W
87. FshkUyh!; tof;f]l]Ljypd; nghJ khy;gp\$pad; cWg]gpd; bray;ghL
 (m) mog]gil myF (M) caph] tof]o
 (,) caph]ntjpr]rkepiyahf;fp (<) fhu- mkpyr]
 rkepiyahf;fp
88. rpWePufj;jpw;Fr] bry;Yk] ,uj;jj;jpd; mst[/ ,jar] bray; mstpy;
 (m) 20 - 25 % (M) 25 - 30 % (,) 30 - 35%
 (<) 35 - 40%
89. FshkUyrpy; fhzg]gLk] bkhj;j tof]l]Lk] tpirapd; mst[
 (m) 25 kp.kp. Hg (M) 50 kp.kp. Hg (,) 75 kp.kp. Hg
 (<) 80 kp.kp. Hg
90. rpWePuf Ez;FHy;fspy; jpUk]g cwpQ;rg]gLk] a{hpahtpd; mst[
 (m) 5 fpuhk] (M) 17 fpuhk] (,) 21 fpuhk]
 (<) 28 fpuhk]
91. ePh]/ FSf;nfh!;/ nrhoak]/ gh!;ngl] kw;Wk; ig fh]gnd]l] cwpQ;rg]gLk] ,lk
 (m) FshkUyh!; (M) mz;ik RUz;l FHy;
 (,) nrfhpf;Fk] FHha; (<) bQd;nyapd;
 fPHpwq;F FHy;

92. FshkUyhh] to jputj;jpy; fhzg]gLk] ePhpd; mst[
 (m) 170 ypl]lh] (M) 168. 5 ypl]lh] (.) 165 ypl]lh]
 (<) 162. 8 ypl]lh]
93. jw;rkak] ,d;Rypd; vjph]g]g] ePhpHpt[neha; mjpfkhff; fhzg]gLk] taJ tuk]g]
 (m) 10 - 15 tUik] (M) 40 - 50 tUik] (.) 35 - 40 tUik]
 (<) 20 - 25 tUik;
94. itu!; bjhw;wpdhy; Vw;glf;Toa ePhpHpt[neha; ,t;tifiar] rhh]e;jJ
 (m) ,d;Rypd; rhh]e;j ePhpHt[(M) ,d;Rypd; rhuhj
 ePhpHpt[
 (.) ,uz tif (<) jPq;Ftpis ePhpHpt[
95. vJ braw;ifahd rpWePufk] vd;W miHf;fg]gLfpwJ>
 (m) tHq;fg]g]l rpWePufk] (M) ilaiyrh]
 (.) jpRf;fSf;F Vw;w rpWePufk] (<) gjg]gLj;]g]g]l rpWePufk]
96. Mz;fSf;fhd xU epiyahd fUj;jil Kiw
 (m) fhg]gh] -T (M) oa{bgf;lkp (.) thrf;lkp (<) fUj;jil khj;jpiufs;
97. khjtplha; epiyapd; Kotpy; fh]g]g]l; Y}!joakhdJ xU jpR tLthf khWk]. mjd; bgah]
 (m) fh]g]g]l; fnyhrk] (M) fh]g]g]l; my;gpfd;!;
 (.) fh]g]g]l; !;!jiunal]lk; (<) ehskpy;yh Rug]gpj; jpR
98. yPof; bry;fshy; Ruf;fg]gLtJ
 (m) <!;!]nuh\$d; (M) bl;!;nlh!;Onuhd; (.) g[nuhb\$!;onuhd; (<) hpyhf;!pd;
99. bgz; ,dg]bgUf;f kz;lyj;jpy; mz;lk] fUt[Wjy; eilbgWk] ,lk]
 (m) brh]tpf;!; (M) fUg]ig (.) Mk]g]yh gFjp (<) fytPf; fhy;tha;
100. tpe;J bry;fs; nrkpj;J itf;fg]gLk; gFjp
 (m) vgpilokp!; (M) brkpidy; ig (.) tpe;J ehsk] (<) g[nuh!;nil] Rug]gp

2. Ez;qaphpay;

101. kdpjhpy; nugg!; neha;f;F Kjypy; jLg]g{rpia fz;lwpe;jth] ah]h]>
 (m) ,uhgh]l] nfhr] (M) n\$hr]g] yp!;lh] (.) Y}ap gh!;!;oa{h] (<) !;nld;yp
102. Md;obrg]of; mWit rpfpr]ir Kiwapid fz;lwpe;jth]
 (m) Y}ap gh!;!;oa{h] (M) n\$hr]g] yp!;lh] (.) bkf;fh]h]j;jp (<) ,uhgh]l] nfnyh
103. ithpahdpy; xnu xU epa{f;spf; mkpyk; kl]Lk] fhzg]gLtjhy; mJ
 ,t;thW miHf;fg]gLfpwJ.
 (m) KGikaw;w itu!;fs; (M) nQg]sha;L itu!;fs;
 (.) og]sha;L itu!;fs; (<) nthpnahyh itu!;fs;

104. fPH;fz;ltw;Ws; kpfj]bghpaJ vJ>

(m) vg]!;Od;ghh] itu!; (M) mondh itu!; (,) ghf;!; itu!; (<) rpkpad; itu!;

105. g[w;Wf; fl]o (my;yJ) nfd;riu cUthf;f J}z;Lk] itu!;fs;

(m) neha; bjhw;W itu!;fs; (M) Md;nfhb\$dpf; itu!;fs;

(,) ghuh itu!;fs; (<) nthpnahyh itu!;fs;

106. fl]Lg]ghLila bry; cs; xl]Lz;zpfs; vd Twg]gLgit

(m) gpsh!;nkhoak] (M) itu!;fs; (,) M!;fhhp!; (<) ghf;Ohpahf;fs;

107. fPH; cs;sitfs;py; g[nuhl]nlhnrhth xl]Lz;zpahy; cz;lhFk] neha; vJ>

(m) fhyuh (M) Odpahrp!; (,) kzy;thhp mk;ik (<) Mg]gphpf;fd; J}f;f tpahjp

108. gpsh!;nkhoahtpd; ghy; ,dg]bgUf;f Kiw thH;f;ifr] RHw;rp vq;F eilbgWk]>
 (m) fy;yPyuy; bry;fspy; (M) ,uj;j rptg]g[bry;fspy;
 (,) kdpjdpd; gpsh!;khtpy; (<) bfhRtpd; clk]gpy;
109. neha; cz;lhf;Fk] vd;lkPgh Qp!;nlhypofh epiy ahJ>
 (m) !;nghh]fs; (M) Lnuhngnrha;]fs; (,) kPnuhrha;]fs; (<) irrhz;Lfs;
110. kdpj bul]nuh itu!;fspy; vr].l.tp rhh]e;Js;s FLk;gk;
 (m) byd;oithpnd (M) nug]nlh itu!; (,) ngrpy;y!; (<) tpg]hpnah
111. itu!; nehiaf; fl]Lg]gLj;Jk] mijpf bray;bfhz;l ntjpag] bghUs; fhuzp
 (m) bl]juhirf;spd; (M) Mk]gprpypd; (,) ,z;lh]bguhd; (<) Md;e;j;uhikrpd;
112. vh]rpdpah bg!;o!; Ez;qaph]j; bjhw;wpdhy; Vw;gLk] neha;
 (m) bfhndhpah (M) rpgyp!; (,) epa]nkhdpah (<) gpnsf;
113. irf;nsh Fthndhrpd; vd;gJ
 (m) Md;]joitu!; vjph] Ez;qaphp kUe;J (M) Md;]jo ghf;Ohpah vjph] Ez;qaphp kUe;J
 (,) vjph]g{Q;ir vjph] Ez;qaphp kUe;J (<) Md;]o g[nuhl]nlhnrhth vjph] Ez;qaphp kUe;J
114. nfl;]lnuh vd;]oiul]o!; vd;Dk] nehapid cz;lhf;FtJ
 (m) rhy;khdy;yh fhynurpa!; (M) vd;lkPgh Qp!;lhypofh
 (M) vh]rpdpah bg!;o!; (<) rhy;khdy;yh ilgp
115. fhyh mrh] nehia njhw;Wtpg]gJ
 (m) vd;lkPgh Qp!;lhiyofh (M) yP!;nkdpah nlhdhthdp
 (,) yP!;nkdpah ouhgpf;fh (<) ohpg]gndhnrkhk nfk]gpad;rp!;
116. ,jd; tpisthf khh]g[kw;Wk; tapw;W nky; gFjpfspy; fUePyg] g[z;fs; njhd;Wk]
 (m) bgh]dPrpa!; mdPkpah (M) bgh]dPrpa!; knyhpah (,) rpgyp!; (<) fnghrp rhh]nfhkh
117. FHe;ijfspy; Vw;gLk] ngjpf;F fhuzkhdJ
 (m) vh]rpdpah bg!;o!; (M) nugp!; (,) fpahh]oah ,d;!;odhyp!; (<)oiuf;nfnkhhdh]!;
118. ghuh itu!;fspy; fhzg]gLk] \$Pd;fspd; vz;zpf;if
 (m) 1- 2 \$Pd;fs; (M) 3- 4 \$Pd;fs; (,) 100 - f;Fk; nky; (<) 1000 - f;Fk; nky;
119. tpyq;FfspikpUe;J kdpjDf;F bjhw;Wk] xl]Lz;zp neha;fs; ,t;tpjk] miHf;fg]gLfpd;wd.
 (m) Me;junghndhr!; (M) Nndhrp!; (,) bjhw;W neha;fs; (<) tpyq;F neha;fs;
120. neha;f;fhd fpUkpf;bfhs;ifapid Kjy; Kjypy; mwptpj;jth]
 (m) Y}ap gh!;!;oa[h] (M) ,uhgh]l] nfhr] (,) n\$hr] yP!;lh] (<) ,uhgh]l] nfnyh

121. ohpnghdpkh ghyplk] vDk] ghf;Ohpahtpdhy; cUthFk] neha;
 (m) bfhndhhpah (M) rpgyp!; (.) epnkhdpah (<)
 fhyuh
122. va;l]!; neha;f;Ff; bfhLf;fg]gLk] Mz;l]o itu!; kUe;J
 (m) Mk]g]gprpypd; (M) Me;j;nuhikrpd; (.) mrpnlhijkpod; (<)
 ,z;l]bguhd;
123. \$pd;\$pitl]oi!j; njhw;Wtpg]gJ
 (m) yP!;nkdpah nlhdhthdp (M) fpahh]oah ,d;l;l]odhyp!;
 (.) ohpg]gndhnrhkh nfk]gpad;!; (<) oiuf;nfnkhhdhLfs;
124. bQg]gill]o!; - B itu!; vd;gJ xU nkYiwa[lid; Toa ----- bfhz;l itu!; MFk].
 (m) ,ul]ilr]rq;fpyp o.vd;.V (M) ,ul]ilr]rq;fpyp Mh].vd;.V
 (.) xw;iwr]rq;fpyp o.vd;.V (<) xw;iwr]rq;fpyp
 Mh].vd.V

125. vr].l.tp. bjhw;wpid cWjp bra;a cjt[k; nrhjid
(m) bt!;lh]d; gpshl] (M) ELISA (.) J}a tsh]g]g[(<) og]sha;L bry;
rhakpLjy;

3. neha;j;jil fhg]gpay;

126. fPH; bfhLf;fg]gl]Ls;sitfSs; jLg]ghw;wiyj; J}z;Lgit vit>
(m) ghf;Ohpah (M) itu!; (.) xl]Lz;zpfs; (<) midj;JK]

127. njhy;; ve;jtif rhh]e;j jLg]ghw;wy; >
(m) cs;mikg]g[jLg]g[(M) clw;bray; jLg]g[(.) bry; tpGq;Fjy; (<) tPf;fk;

128. fPH] tUtdtw;wpy; vJ ghf;Ohpa vjph]bghUs;
(m) ,z;lh]bguhd; (M) iynrhir] (.) g[ujk] (<)
Qhh]nkhd;

129. fPH; cs;sitfspy; vJ itu!; vjph]bghUs;
(m) iynrhir] (M) ,z;lh]bguhd; (.) g[ujk] (<)
Qhh]nkhd;

130. fPH; fhz;gitfspy; tpGq;Fk] bry; n\$hofis fz;lwpat[k]
(m) nkf;nuhng\$;fs;& epa{]nuh@gpy;fs; (M) ypk]ngh@ir]Lfs;&]
<!;ndh@gpy;fs;
(.) nkf;nuhng\$;fs;&] <!;ndh@gpy;fs; (<) <!;ndh@gpy;fs;&]
epa{]nuh@gpy;fs;

131. Qp!;lkpd;idr] Ruf;Fk] bry;fs;
(m) vgpj;jPyar] bry;fs; (M) kh!;l] bry;fs; (.) ,uj;j rptg]g[bry;fs; (<) jir
bry;fs;

132. jput tHp jLg]ghw;wiy bray;gLj;JtJ
(m) rhjhuzr] bry;fs; (M) neha; fhuzp bry;fs;
(.) er]Rf; bry;fs; (<) ,k]a[ndhFnshg]ypd;
\yf;TWfs;

133. gpd;tUtdtw;Ws; vJ bry;tHp neha;j; jilfhg]gpd; cUthf;fj;jpy; gq;F
tfpf;fpd;wJ>
(m) ijk!; (M) kz;zPuy; (.) fy;yPuy; (<) fizak]

134. bry;tHp neha;j; jilfhg]ig bray;gLj;Jtd
 (m) bry;er]rhf;f tif T- bry;fs; (M) B- ypk;nghir]Lfs;
 (,) nkf;nuh@ng\$;fs; (<) Md;o\$d; tHq;Fk;
 bry;fs;
135. tPf;fj;jpd; nghJ ghjpf;fg]g]l ,lq;fspy; vt;tif bry;fs; Ftpf;fg]gLfpd;wd>
 (m) T- ypk]@nghir]Lfs; (M) @ngnfhirl]Lfs;
 (,) vhpj;nuhir]Lfs; (<) nkhdnhirl]Lfs;
136. gpd;tUgittfsy; vJ cly; mikg]g[rhh]e;j jil
 (m) bts;isaqf;fs; (M) nfhiHg]glyk; (,) ,d;lh]bguhd; (<) ijnkhir]Lfs;
137. fPH;fz;ltw;wpy; Kjy;epiy epzePh] cWg]g[vJ>
 (m) ijk!; (M) kz;zPuy; (,) epzePh] Kor]Rfs; (<) fy;yPuy;
138. MHC \$Pd;fs; Rz;blypapd; ve;jf; Fnuhnrhkpy; cs;sJ
 (m) xd;W (M) ,uz;L (,) ehd;F (<) MW
139. ijk!; Rug]gpapd; tsh]r]rp fhyk]
 (m) 17 tUlq;fs; tiu (M) 12 tUlq;fs; tiu (,) 5 tUlq;fs; tiu (<) 30 tUlq;fs; tiu
140. fPH;fhz;gittfsy; MI]nlh ,k;kpa{d; neha; (Ra jilfhg]g[neha;) vJ>
 (m) va;!;!; (M) ky;ogps; !;f;pspnuhrp!; (,) g[w;W neha; (<) MI;Jkh
141. ve;j tif Md;]l]oghofs; xt;thik gz;g[bfhz;lit
 (m) IgG (M) IgA (,) IgM (<) IgE
142. SCID neha;f;fhd fhuzk]
 (m) mondhir; o mkpnd!; FiwghL (M) FSf;nfh!; Mf;!pn!; FiwghL
 (,) gh!;gn!; FiwghL (<) bkyhdpd; FiwghL
143. va;!;!; neha;f;fhd fhuzp
 (m) ghf;Ohpah (M) g{Q;ir (,) bul]nuh itu!; (<) TMV
144. ,k;a[ndhFnshgpidr] Rug]gJ
 (m) T- ypk;bghir]Lfs; (M) B- ypk;nghir]Lfs;
 (,) nkf;nuhng\$;fs; (<) kh!;] bry;fs;
145. ,k;a[ndhFnshgpdpy; cs;s H rq;fpypapd; \yf;TW vil
 (m) ,yF rq;fpypf;F rkkhdJ (M) ,yF rq;fpyp nghd;W
 ,Uklq;fhdJ
 (,) ,yF rq;fpyp nghd;W \d;W klq;fhdJ (<) ,yF rq;fpyp nghd;W ghjpahdJ
146. ,k;a[ndh Fnshgpydpd; ntjpag]bghUs;
 (m) fpisf;nfh\$d; (M) fpisf;nfh g[u]jk (,) fpisf;nfh ypg]gpl] (<) ypg]ngh g[u]jk
147. gpsh!;of; rh]\$hp mWit rpfpr]irapd; tif
 (m) b\$ndhfpuhg]l] (M) my;nyhfpuhg]l] (,) MI]nlhfpuhg]l] (<) Inrhfpuhg]l]
148. xj;j mikg]g[ila ,ul]ilah]fSf;F ,ilna cWg]g[khw;wk; bra;ag]gLtJ

(m) b\$ndhfpuhg]] (M) my;nyhfpuhg]] (.) MI]nlhfpuhg]] (<)
lnrhfpuhg]]

149. gd;wpapypUe;J kdpjDf;F cWg]g[xl]L bra;ag]gLtJ

(m) MI]nlhfpuhg]] (M) my;nyhfpuhg]] (.) lnrhfpuhg]] (<)
b\$ndhfpuhg]]

150. jilfhg]g[Fiwt[neha;f;F vLj;Jf;fh]]L

(m) jyhrPkpah (M) my;gpdprk; (.) SCID (<) ky;ogps; !;fpspnuhrp!;

4. jw;fhy kugpay;

151. ve;j g[nuhnfhpah]oy; mjpgf mst[kugpay; nrhjids; nkwb;bfhs;sg]g]Ls;sJ>
(m) TMV (M) ghf;Ohpnah@ng\$; (.) v!;brh]rpah nfhiy (<) nfhyppghh]k] ghf;Ohpah
152. DNA tpy; ,uz;L ,iHfs; cs;sd vdf; fz;lwpe;jth]
(m) H.G. bfuhdh (M) bkz;ly; (.) T.H. khh]fd; (<) th]rd; kw;Wk] fphpf;
153. kdpjdp; vj;jid kug[f; Fiwghl]L neha;fs; fz;lwpag]g]Ls;sd >
(m) 300 f;Fk] mjpgkhd (M) 300 f;Fk; Fiwthd (.) Vwf;Fiwa 400 (<) Vwf;Fiwa 100
154. kdpjhpy; kug[g] gz;g[fisg] gw;wp mwpa cjt[tJ
(m) caph] ntjapay; nrhjid (M) fyg]gpd]k] bra;jy;
(.) re;jjp tHpj; bjhlh] (<) Xhpdf; fyg]g[bra;jy;
155. fjph] mhpths; ,uj;j nrhif vjdhy; Vw;gLfpwJ >
(m) clw;Fnuhnkhnrhkpy; cs;s \$Pd; (M) ghy;Fnuhnkhnrhkpy; cs;s \$Pd;
(.) it]lkpd;fspd; FiwghL (<) Qhh]nkhd;fspd; mst[khWghL
156. my;gpdprj;jpw;fhd fhuzk]
(m) bkyhdpd; ,y;yhik (M) it]lkpd; ,y;yhik
(.) bkyhdpd; ,Ug]g]pdhy; (<) Qhh]nkhd;fs; ,y;yhik
157. kdpjdp; clw;Fnuhnkhnrhkpy; fhzg]gLk] Xq;F \$Pd]pdhy; Vw;gLk] neha;
(m) fjph] mhpths; nrhif (M) jhyrPkpah
(.) SCID (<) mz;oq;l]ld; bfhhpah
158. ,onahfpuhk] vd;why;
(m) \$Pd;fis Fwfp;Fk] glk] (M) Fnuhnkhnrhk]fis Fwfp;Fk] glk]
(.) ,ja Fiwghl]il fhqk] glk] (<) vyf;l]nuh fhh]onahfpuhk]
159. vit elkhLk] kug[g] bghUs; vdg]gLfpwJ
(m) gpsh!;kpl]fs; (M) Mh].vd;.V (.) ghh] cWg]g] (<) ouhd;!;nghrhd;fs;
160. Fnuhnkhnrhk]fs; 4 kw;Wk; 5/ Fnuhnkhnrhk] bjhFg]gpy; ve;jbjhFjpapy; mike;Js;sd >
(m) A (M) B (.) C (<) D
161. fjph] mhpths; ,uj;j nrhif nehahy; ghjpf;fg]g]L jhq;fpahf capUld;
thH;gtuJ \$Pd; mikg]g]
(m) Hb^SHb^S (M) Hb^AHb^S (.) Hb^AHb^A (<) HbHb
162. Y Fnuhnkhnrhk] mlq;fpa[s;s bjhFjp
(m) bjhFjp A (M) bjhFjp D (.) bjhFjp C (<) bjhFjp G

163. g[nuhl]onahkpf;!; vdg]gLk] g[uj bra;jpapaypy; mkpndh mkpy thpiraikg]ig thrpg]gJ

(m) QPnkhirl]nlh kPI]lh] (M) bjh]kh kPI]lh] (.) FSf;nfh kPI]lh] (<) rPnfhd]lh]

164. X Fnuhnkhrhk] kdpj Fnuhnkhrhk] bjhFg]gpy; ve;jj; bjhFjpapy; mike;Js;sJ >

(m) bjhFjp C (M) bjhFjp B (.) bjhFjp A (<) bjhFjp D

165. FkpH; rpWtd; rpd;l]nuhk] vd;Wk] miHf;fg]gLtJ

(m) BLAST (M) HGP (.) SCID (<) DOPA

166. gpd;tUtdtw;Ws; ve;j kugpay; neha; bgUk]ghYk] rpWth]fspy; fhzg]gLk]

(m) my;gpdprk] (M) vfkhFnshg]ypdpkpah (.) jyhrPkpah (<) mz;oq;ld; bfhhpah

167. mz;oq;ld; bfhhpah neha;f;F fhuzkhd \$Pd; mike;Js;s Fnuhkhnrhk]
 (m) ehd;fhtJ (M) ,UgjhtJ (,) vl;lhtJ (<) MwhtJ
168. bkyhdpd; cw;gj;jpf;F njitahd mkpndh mkpyk]
 (m) thypd; (M) jphpnahdpd; (,) ilnuhrpd; (<) kPjpnahdpd;
169. bkyndhir] bry;fspy; DOPA vd;Dk] bghUs; bkydpdhf khWtjw;F cjt[k; vd;irk]
 (m) mikny!; (M) ilnuhrpnd!; (,) fhkh Fnshg[yypd; (<) moidd; o mkpnd!;
170. vhp jzy; fhp vd;gJ vjDila fpuhgpf;!; khjphp >
 (m) DNA (M) fh]nghiQonul] (,) ypg]gpLfs; (<) g[ujk]

5. Rw;Wr] NHy; mwptpay;

171. kpf mjpf mstpy; fhzg;gLk; fz;zho tPL tha]
 (m) NO₂ (M) CO₂ (,) O₃ (<) SO₂
172. fPH;f;fz;l ve;j tha[f;fs; Xnrhd; glyj;ij ntfkhf mHpf;fpd;wd >
 (m) Fnshnuh g[Snuh fh]gd; (M) iQI]nuh Fnshnuh g[Snuh fh]gd;
 (,) m kw;Wk] M (<) ry;gh] il Mf;ilL
173. rpwpa mst[ntjpa fHpt[fisf; bfhz;l mjpf mst[fHpt[ePiu ifahs vk]Kiw rpwe;jJ>
 (m) epyj;jpy; epug]g[jy; (M) MH;f;fpzW gha;r]ry;
 (,) nkW;gug]gpy; \oitj;jy; (<) vhpj;Jr] rhk]gyhf;fy;
174. btg]gf;fhLfspy; kuq;fspd; kfue;jr] nrh]f;iff;F Kf;fpakhfg] gad;gLtJ
 (m) kpkpf;; g{r]rp (M) Mh]fpl] njdPf;fs; (,) iundhrpuh!; tz;Lfs; (<) ghLk] gwitfs;
175. fPH;f;fz;l vg]gFjp caphpay; brhh]f;fk] vd miHf;fg]gLfpwJ >
 (m) kd;dhh]]tisFlh caphpay; kpFtsk; (M) ePyfphp caphpay; kpFtsk;
 (,) ee;jhnjtp (<) epf;nfhghh]
176. xU tUl;jpw;F g{kpf;F tUk] Nhpa Mw;wy; mst[----- fpyh fnyhhpfs;
 (m) 1000; (M) 10×10^{10} ; (,) 5×10^{20} ; (<) 15×10^{23} ;
177. vjph]fhyj;jpy; midj;J kpd;rhuj; njitfisa[k; g{h]j;jp bra;a[k; Mw;wy;
 (m) ePh] Mw;wy; (M) iQI]u\$d; (,) btg]g Mw;wy; (<) Nhpa Mw;wy;
178. cyfpy; cs;s ePhpy/ vj;jid rjtPjk] ed;dPh] >
 (m) 10% (M) 3% (,) 15% (<) 50%

179. ed;dPiug] bgWtjw;F cg]g[ePiuf; FoePuhf;Fk] jpl;l;ij ek]gpapUf;Fk] ehL
vJ >

(m) Jgha; (M) Xkhd; (,) gQ;iud; (<) nkny Twpa
midj;Jk]

180. ,lh]ghLk] jUk] caphpa kUj;Jt fHpt[fs; nkyhz;ik Kiw

(m) epyj;jpy; epug]g[jy; (M) MH;fpzW gha;r]ry;
(,) nkW;gug]gpy; \oitj;jy; (<) vhpj;J rhk]gyhf;fy;

6. gad;ghl]L caphpay;

181. jw;ngHJ fhzg]gLk] kh]lodq;fspd; vz;zpf;if
(m) 29 ,dq;fs; (M) 30 ,dq;fs; (.) 26 ,dq;fs; (<) 20 ,dq;fs;
182. fPH; cs;sitfsPY; vJ ,Git,dj;ijr] rhh]e;jJ
(m) fhq;nfak] (M) fPY;yhd; (.) fhq;nu\$; (<) QhyPf;fhH]
183. ,uj;j bts;isaqf;fis (WBC) fzf;fpLtjw;F gad;gLj;jg;gLk] ePh]f;Fk] jputk]
(m) nQak]!; jputk](M) lh]f;!; jputk] (.) ,nahrpD; jputk] (<) rptg]g[ypl]k!;
184. fPH;fz;l nfhHp ,dq;fSs; vJ rz;ilapLk] gz;gpidf; bfHz;lit >
(m)rp]l]fhq; (M) g!;uh (.) mrPY; (<) fhuf;ehj;
185. fPH; bfHLf;fg]g]litfsPY; ve;j ,dk] may; ,dj;ijr] rhh]e;jJ my;y
(m) b\$h]rp (M) fph] (.) gpbust[d; Rtp!; (<) mah]rah]
186. fPH; bfHLf;fg]g]litfsPY; bjhw;W nehapD; cjhuzk] vJ >
(m) kyr]rpf;fy; (M) ghy;fha;r]ry; (.) gR mk;ik (<) nkW;Twpamidj;JK]
187. Rz;zhk]g[ePUld; bty;yk] fye;J bfHLg]gJ ve;neha;f;fhD Kjy; cjtp rpfpr]ir >
(m) tapw;Wg]ngHF;F (M) kyr]rpf;fy; (.) ghy;fha;r]ry; (<) Md;j;uhf;!;
188. fPH;fhqk] gR ,dq;fspy; vjDila ghypy; mjpf fnuhl]od; rj;J fhzg]gLfpwJ >
(m) rpe;jp ,dk] (M) Qhpahdh ,dk] (.) fph] ,dk] (<) b\$h]rp ,dk]
189. gpd;tUk] mwpFwPfsPY; Md;j;uhf;!; neha;fs; fhzg]gLtJ
(m) ko tPq;Fjy; (M) ,aw;if g[iHfspd; tHpahf uj;jg]ngHF;F
(.) grpapD;ik (<) mir ngHlhik
190. kdpjdpD; rptg]gqf;fis (RBC) fzf;fpLtjw;F gad;gLj;jg]gLk] ePh]f;Fk] jputk]
(m) lh]f;!; jputk] (M) nQak]!; jputk] (.) lha;!;hd; jputk] (<) epzePh] jputk]
191. ,e;jpa bgUk] bfz;ilfsPY; kpf ntfkha; tsuf;ToaJ
(m) nygpnah nuhfpl]lh (M) bfSj;jp (.) fl]yh fl]yh (<) kph]fhy;
192. fhw;iw nehPilahfr] Rthrf;Fk] jpwd; cs;s caph] kPd;fs;
(m) kph]fhy; (M) Ky;y] (.) nuhF (<) bfSj;jp
193. midj;J fhH]g]fspYk] Rit kpFe;j kPd;
(m) fl]yh fl]yh (M) nygpnah nuhfpl]lh (.) rph]judh kph]fhyh (<) rd;dh !;!]nunal]!;

7. ghpzhkf; nfhl]ghL

194. tpyq;fpay; jj;Jtk] vd;w E}iy btspap]lth]

(m) rhh]y!; lhh]tpd; (M) Mf!;] tP!;nkd; (,) bkf; Lfhy; (<) \$Pd; ghg]!;J ykhkh]f;

195. Kj d;Kjy py; b\$h]k]gpshrj; jpid/ nrkh]nlh gpshrj; jpy pUe; J gphpj; bjLj; j b\$h]khdpa h]

(m) ykhkh]f; (M) khy; j; j!; (,) tP!; nkd; (<) QPnfh o bthp!;

196. bkf; Lfhy; g[jpa ykhkh]f; fpaj; jpid Mjhpj; J btspap]lf; fUj; J

(m) caphpdj; jpd; nky; NH; epiyapd; neuoj; jhf; fk]

(M) bgw; wg] gz; g[fs; kug[g] gz; g[fshFk]

(,) fw; wypd; jd; ik jiyKiwf; F jiyKiw mjpfhpf; fpd; wJ

(<) vy; yhf; fhuzq; fSk]

197. lhh]tpd; Mjhpj;j ghpzhk fUj;Jf;fs;
 (m) kpfr]rpwe;jit te;jiljy; (M) kpfr]rpwe;jit jg]gp thH;jy;
 (.) b\$h]k] gpshr kw;Wk] nrhk]nlhgpsr ntWghL (<) \$Pd; khw;wLf;fk]
198. ghpzhkr] braw;ghq;F vDk] E]iy btspap]nlhh]
 (m) blhg]rhd;fp (M) \$p.vy;. !;blgpd;!;; (.) Qhh]otPd;bgh]f; (<) QPnfh o bthp!;
199. \$Pd; FGkk] nkk]ghl]ow;F fhuzpfs;
 (m) jpOh]khw;wk] (M) clw;gz;g[khw;wq;fs;
 (.) Fnuhnkhnrhk]fspd; Fiwt[(<) ir]nlhgpsr]k] mjpfhpg]g[
200. kugpa efh]t[nfh]ghl]oid btspap]l]th]
 (m) ykhkh]f; (M) H.J. Ky;yh] (.) rpty; iul] (<) G.H. Qhh]o

1. kdpj clw;braypay;

FWtpdhf;fs; (3 marks)

- 1.czt{!;lj;jpg; gy;ntW epiyfs; ahit>
 1. cs;spGj;jy; 2. brhpj;jy; 3. cl;fpufpj;jy; 4. jd;kakhf;Fjy;
 2. ghyprhf;fpilLfs; vd;why; vd;d> vLj;Jf;fhl;Lfs; jUf.
- ,it gy xw;iwr] rh]f;fiufspd; xd;wpidg]ghy; Mdit.
 - mjpf mstpy; rf;jpia bfhz;L nrkpg]g[czthf !;lhh]r; cs;sJ.
 - cly; fl;Lkhd bghUl;fshfpa ifl]od;/bry;Ynyh!; vDk; bghUl]]fshf cs;sd.
 - v.fh. fpisf;nfh\$d;.
3. mj;jpahtrpakhd mkpndh mkpyq;fs; ahit>
 mh]\$pidd;/thypd;/Qp!;ood;/lnrhypa{rpd;/ypa{rpd;/iyrpd;/kPjpnahdpd;/
 gpidy;mydpd;/ jphpnahdpd;/ohpg]nlhngd;.
4. Fth#pahf;fh] vd;why; vd;d>mjd; mwpFwpfs; ahit>
- g[uj Fiwghl;L neha;
 - mwpFwpfs;: 1. jirfs; bkypjy; 2. Kfk;/fhy;fspy; tPf;fk; 3. tapW cg]gpapUj;jy;
 5. kuhRk!; vd;why; vd;d>mjd; mwpFwpfs; ahit>
 - g[uj Fiwghl;L neha;
 - mwpFwpfs;: 1. cly; vil Fiwjy; 2. fLikahd tapw;Wnghf;F 3. cly; jirfs; bkypjy; 4. vYk;gpd; kPJ njhy; \oa[s;sJ nghy; njhd;Wk;.
6. PUFA vd;why; vd;d>
- ghyp md;rhr]Rnul]]] bfhGg]g[mkpyq;fs;.
 - vspjpy; Mf;!pfuzk; miltjhy; ,uj;j mGj;j neha; cs;sth]fSf;F rpwe;jJ.
 - v.fh. Nhpafe;jp vz;bza;/ rh@g]sth] vz;bza;.

7. cly; gUkd; vd;why; vd;d>

- Fwpg]gpl;l tajpw;Fhpa vilapid tpl 10 rjtP]k; m]p]fhpg]g[cly; gUkd; vdg]gLk;.
- mstp]w;F m]p]fkhd bf]hGg]g[clypy; nrf]hpf;fg]gLjy;.

8. cly; gUkzf;fhd fhuzq;fs; ahit>
 1. ghuk]ghpa fhuzq;fs; 2. mjpf] grpa[k; mjdhy; kpjqpQ;rpa cz;qjYk;
 3. ehskpy;yh Rug]gpfspd; Rug]g]fs; 4. tsh]rpij khw;wf; FiwghLfs;.
9. BMI tiuaW.
- BMI vd;gJ cly; vil FwpaPL MFk;.
 - cly; gUkid cly; vilf; FwpaPl;lhy; Fwpg]gplyhk;.
 - fpnyhfpuhk; fzf;fpYs;s cly; vilia kPl;l] fzf;fpYs;s cly; cauj;jpd; klq;fpdhy; tFj;jhy; BMI fpilf;Fk;.
10. bgy;yf;uh nehpd; mwpFwpfs; ahit>
 1. kwjp njhd;Wk; 2. njhy; ghj]g]g] 3. tha]g]z; Vw;gLk; 4. ehf;F rpte;J typ Vw;gLk;.
11. itl;lkpd; C Fiwtpdhy; Vw;gLk; !;fh]tp nehpd; mwpFwpfs; ahit>
 1. gy; <wpy; ,uj;j frpt[2. gy; tpGjy; 3. jirfspy; ,uj;jf; frpt[
12. gw;rpijtpd; mwpFwpfs; ahit>
- gw;brhj;jij ed;F Vw;gl;Ls;sjw;F Kjy; mwpFwp gy;typahFk;.
 - ,dpg]g] kw;Wk; NL my;yJ Fsp]r;rp kpFe;j czthy; typ mjpfkhFk;.
 - tha; Jh]jehw;wKk; Vw;glyhk;.
13. Fly;thy; mHw;rpapd; mwpFwpfs; ahit>
 1. nky; tapw]wpy; typ 2. the;jp czh]t[3. fha;r;ry;.
14. bQg]gol;o!; (fy;yPuy; mHw;rp) vd;why; vd;d>mjd; mwpFwpfs; ahit>
- fy;yPuy; mHw;rp itu!;fspd; jhf;Fjy; my;yJ kJ mUe;Jjyhy; Vw;gLk;.
 - cly; nrhh]t[/ the;jpbaLj;jy;/ fha;r;ry; ,jd; mwpFwpfshFk;.
15. Fly; gpJf;f tiffs; ahit>
 1. ftl;ilg] gpJf;fk; 2. nky;bjhil gpJf;fk; 3. bfhg]g{H; Fly; ,wf;fk;.
16. Fly; ,wf;fk; cz;lhf fhuzq;fs; ahit>
1. tapw;Wg]g]w]j; jirfspd; typik Fd;wpa epiy. 2. jPObud vil kpFe;j bghUl]fis J]f;Fjy;.
3. fod clyiHg]g].
17. gp!pnahbjugp vd;why; vd;d>
 clw;gapw;rpapd; \ykhf/ braypHe;j if/fhy;fis kPz;Lk; ed;Kiwapy;
 bray;glr] bra;jny gprpnahbjugp vdg]gLk;.
18. bfsi; vd;why; vd;d>
- gpwg]gpypUe;nj fhzg]gLk; gpa{iud; tsh]rpij khw;wf; Fiwghodhy; ,J njhd;WfpwJ.
 - nrhoak; a{nul; gofq;fs; \;Lg] gF]papYk;/ mijr] Rw;wpa[s;s jpRf;fspYk; gotjhy; ,e;j \;L typ njhd;WfpwJ.
19. Unkl;of; \;Ltyp vd;why; vd;d>
- ,J ek; clypy; cs;s vy;yh ,izg]g]j; jpRf;fisa[k; ghjpf;fpwJ.
 - vYk;g] kw;Wk; jirfspd; cWg]g]j; bjhFg]g]fisna mjpfkhf jhf;FfpwJ.
 - irndhtpay; ciwapd; tPf;fkn ,e;nehpd; Kf;fpa mwpFwpahFk;.

20. kuz tpiwg]g[vd;why; vd;d>

- xUth] ,we;jgpd;/ gy kzpneuk; tiu/ jirfs; RUq;fpa epiyapid mila[k;.
- ATP\yf;TWfs; jir eh]fspy; ,y;yhjnj ,jw;F fhuzkhFk;.
- iynrhnrhk;fspd; vd;irk] jirehh] g[ujq;fis rpjj;jy;.

21. bQhpg; - g[+ah] mdpr]ir bray; vd;why; vd;d>

- \r]R rpw;wiwapd; Rth]fs; cl;Rthrj;jpy; ed;F tphptila[k;.
- mjid czh]e;j czh]gFjpf; KFsj;jpYs;s btspr]Rthrg] gFjpf;F ntf!; euk;gpd; tHpna J}z;Ljy mDg]g[fpd;wd.
- ,jdhy; cl;Rthrk; epWj;jg]gLk;.

22. epa{nkhdpah my;yJ rspf;fha;r]rypd; mwpFwpfs; ahit>

- kQ;rs;/ gr]ir epwr] rspa[k;/ rpy ntisfsy; ,uj;jKk; rsp tHpna btspg]gLk;.
- fha;r]ry;/ eLf;fk;/ \r]Rj;jpzw;/ ,Uky; nghd;wit njhd;Wk;.

23. gpuhd;ifo!; (kh]g[r]rsp neha;) vd;why; vd;d> mjd; tiffs; ahit>

- \r]Rf; FHhapid Eiuapuy;Yld; ,izf;Fk; \r]Rf; fpisf; FHj;fspd; Rtw;wpy; tPf;fk; .
- ,jdhy; ,UkYk; rsp njhd;WjYk; Vw;gLk;.
- jPtpu kh]g[r;rsp neha; / Kw;wpa kh]g[r]rsp neha; vd ,Utifg]gLk;.

24. ,ja ,af;f RHw;rp vd;gJ ahJ>

Xh] Jtf;f ,jaj; Jog]g[j; njhd;wp gog]goahfg] gy epfH;r]rpfspd; gpd; kPz;Lk; ,jaj; Jog]gpd;

Jtf;fk; njhd;Wjy; Xh] ,ja ,af;fr] RHw;rpahFk;.

25. ,jaj; jir erpt[wy; neha; vd;why; vd;d>

,J Xh] ,jaj;jir jkdp nehahFk;. ,e;neha; ,jaj; jirfSf;F bry;Yk;

jkdpf; FHj;fs; milgLtjhy; njhd;Wk;. ,jdhy; kpff; fLikahd beQ]Rtyp Vw;gLk;.

26. mikjpaht ,jaj; jir erpt[wy; neha; vd;why; vd;d>

,e;nehapy; beQ;Rtyp njhd;Wtjpy;iy. Mdhy; kaf;fk;/ tpah]j;jy;/ njhy; btSg]g[

nghd;wit nehplyhk;. ,j;jd;ik rh]f;fiu tpahjpa[ilath]fs;/kpif ,uj;j

mGj;jk; cs;sth]fspy; njhd;Wk;.

27. MQ;rpnahtpuk; vdwhy; vd;d>

X- fjph] brYj;jp ,jaj;jir ,uj;jf; FHha;fisg] glkhf njhw;Wtpj;jny

MQ;rpnahtpuk; MFk;. ,g]glj;jhy; FHj; milg]g[fisf; fz;Lgpof;fyhk;.

28. ,jaj; J}z;ly; milg]g[vd;why; vd;d>

- ,ja ,af;jj;pw;fhd kpd; J}z;Ljy; jilgLtjhy; njhd;Wk;. ,e;epiyapy; kpd; J}z;Ljy;
- irD Mhpf;Fyhh] fqtpy; njhd;wp Kiwahf ,jaj; jirfis miltjpy;iy.
- KG milg]gpy; J}z;Ljy; Kw;wpYkhfj; jirfis milahJ.

29. ,ja – Eiuapuy; bray; J}z;ly; vd;why; vd;d>

,jaj;Jog]g[epd;Wtpl;l xUtUf;F cldoahf kh]g[g] gFjppy; ,jaj;jpw;F nky;

mGj;jpg] gpire;J/ thapd; nky; tha; itj;Jr] Rthrj; J}z;ly; bra;tJ MFk].;

30. jpuhk;g!;/vk;nghy!; ntWgLj;Jf.

- **jpuhk;g!**; - ,uj;jf; FHhapDs; Vw;gLk; fl;o.

- **vk;nghy!**; - ,uj;jf; FHhapDs; Vw;gLk; ,uj;jf;fl;oapd; ,lk;bgaUk] rpW Jzpf;if.
 31. ,jaj;jir erpt[wy; nehapd; jhdwpFwpfs; ahit>
 1. kpff; fLikaHd beQ;Rtyp 2. tpah]j;jy; 3. \r]Rj;jpzwy; 4. tapw;Wf; Fkl;ly;/the;jp
 5. kuzk] gw;wpa glglg]g[.
 32. euk;g[bry; ,izg]g[vd;why; vd;d>

xU euk;g[bry;ypd; Mf;!hdpd; Kotpy; cs;s FkpH; nghd;w gFjp mLj;j euk]g[bry;ypd; bld;oiul;Lld; bjhlh]g[bfhs;Sk]. ,e;j ,iznt euk;g[bry; ,izg]g[MFk;.
 33. mk;dPrpah vd;why; vd;d>

mk;dPrpah vd;gJ epidthw;wypd; ,Hg]g[MFk;. ,e;neha; fz;lth]fs; fle;j fhy epfH;t[fis epidt[Tw ,ayhJ.
 34. my;!Pkpah] neha; vd;why; vd;d>

my;!Pkpah] vd;gJ xU jPtpu \is FiwghL neha; MFk;. ,e;nehahy; ePz;l fhy epidthw;wy; ,Hg]g[k;/ gpd;dh] \isapd; rpe;jidj; jpwd; Fiwe;J ,wg]g[k; Vw;glyhk;.
 35. vyf;l;nuh vd;br@gnyhfpuhgp (EEG)vd;why; vd;d>

bgU\isg] g[wzppapy; epa{uhd;fs; mlqfpa cWg]g[fSf;fpilna fhzg]gLk; kpd;ndhl;l miyt[fis vyf;l;nuh vd;br@gnyhfpuh@g] vd;Dk] fUtpapd; lyk; gjpt[bra;jYf;F vyf;l;nuh vd;br@gnyhfpuhgp vd;W bgah].
 36. ,Ugf;f czh] ,af;fk; vd;why; vd;d>

bgU\isapd; ,JJ/ tyJ miuf;nfhqs;fs; fhh]g!; fy;nyhrk;/Kd;g[w ,izg]g[j;jpR kw;Wk; Qpg]nghnfk]g]gy; ,izg]g[j;jpRtpd; \yk; bra;jpfis gwpkhwp / bray;fisg] gphpj;J mwpe;J bray;gLfpd;wd. ,r]bray; ,U gf;f czh] ,af;fk; vd;W miHf;fg]gLfpwJ.
 37. \isr]rt;t[fha;r]ry; vd;why; vd;d>
 - \isr]rt;t[fha;r]ry; vd;gJ \isiar] Rw;wp cs;s \isr] rt;t[fspd; tPf;fkHfK;.
 - ghf;Ohpah/itu!; my;yJ g{Qirfs; nghd;wtw;why; ,e;neha; Vw;gLfpwJ.
 - jiytyp/vhpr]ry;/fha;r]ry;/fGj;Jg] gF]papy; jir ,Wf;fk; nghd;wit ,jd; mwpFwpfs;.
 38. mdpr]jir tpy; vd;why; vd;d>

mdpr]jir braypy; czh] cWg]gpw;Fk;/bray; cWg]gpw;Fk; ,ilapy; <Lgl;Ls;s euk;g[r] rq;fpyfspd; bjhFg]ng mdpr]jirtpy; vdg]gLk;.

mdpr]jirtpy; cWg]g[fs; : czh] cWg]g[fs; - czh]t[euk;g[- jz;Ltlj;jpd; rhk]gy; epwg]gFjp

- ,ilaPl;L euk;g[- ,af;f euk;g[- bray; cWg]g[fs;.
 39. mf;nuhbkfyp vd;why; vd;d>

bghpath]fspy; gpl;a{l;lhp Rug]gpapd; tsh]r]rp Qhh]nkhd; mjpfkhf Ruf;fg]gl;lhy; fPH;jhil/

if/ fhy; vYk;g[fs; joj;Jf; fhzg]gLk; . ,e;epiyf;F mf;nuhbkfyp vd;W bgah].
 40. vd;lkp; fha;l] my;yJ vsa fha;l] vd;why; vd;d>

ehk; cz;qk; cztpy; mnahod; Fiwthf ,Ue;jhy;/,uj;jj;jpy; ijuhf;!pd; mst[

Fiwe;J fhzg]gLk;. ,jdhy; TSH Qhh]nkhd; ijuha;L Rug]gpia
J}z;o ijuhf;!pidmjpfmst[Ruf;f itf;fpwJ. ,J ijuha;L Rug]gpia tPq;fr] bra;fpwJ.
,jw;F vd;lcpf; fha;lh] vd;W bgah].
41. fpnutpd; neha; my;yJ vf;nrh@g]jhy;kpf; fha;lh] vd;why; vd;d>
ijuhf;!pd; mjpf mst[Rue;jhy; Vw;gLk; neha; fpnutpd; neha; MFk;. kpifahd
,jaj;Jog]g[/ kpifahd Rthrk;/ gpJq;fpa fz;fs; nghd;wit ,jd; mwpFwpfshFk;.

42. kpf;!pokh nehapd; mwpFwpfs; ahit>

1. Fiwe;j mog]gil tsh]rpij khw;w tPjk; 2. njhy; joj;J cyh]e;J
brhubrhug]ghFjy;

3. czh]r]rpfsw;w cg]gpa Kfk; 4. njhypy; Ko cjph]jy; 5. Fuypy; khw;wk; 6.
Qhgf kwjp

43. fphpl;odp!k; nehapd; mwpFwpfs; ahit>

1. euk;g[kz;ly tsh]r]rp jilgLjy; 2. cly; tsh]r]rp Fd;wp fhzg]gLjy;
3. ehf;F btsrna js;Sjy; 4. tapw;Wg] gFjp tPf;fKw;W fhzg]gLjy;
5.clypd; btg]gepiy Fiwy; 6. ghy; gz;g[fspd; tsh]r]rp jilgLjy;.

44. rpWePuf CL gFg]g[(lahyprp!;) vd;why; vd;d>

rpWePuf braypHg]gpw;fhd rpfpr]ir Kiwapy;/ ,uj;jj;ppy; cs;s
fHpt[g]bghUs;fs;/

mjpgf]gofhd jputk; Mfpatw;iw clypUe;nj CLgFg]g[\yk; btspnaw;Wk;
KiwahFk;.

45. ypj;njhohpg]rp vd;why; vd;d>

m]ph]t[miyfis rpWePuf;jpd; kPJ brYj;jp rpWePuf fw;fis Kw;wpYkhf
rpij;fg]gLk; rpfpr]irKiwf;F ypj;njhohpg]rp vd;W bgah].

46. fz;g[iu vd;why; vd;d> mjd; tiffs; ahit>

- fz; byd;rpdp; xspg[Fk] jd;ik Fiwghl;odhy; fz;g[iu Vw;gLfpwJ.

- mlh]kj;jp fz;g[iu/ btspg]g[wf; fz;g[iu vd ,U tfig] gLk;.

47. fz;g[iuf;fhd fhuzq;fs; ahit>

1. tajhFjy; 2. Mjpf Nhpa xspg]Ljy; 3. g]if gpoj;jy; 4. czt[gw;whf;Fiw
5. fz; fhakiljy; 6. bjhw;W neha;fs; 7. !;ouha;L fye;j kUe;Jfis cz;qjy;.

48. ghh]itf; fzf;fPL vd;why; vd;d>

fz;zpd; ghh]it jd;ikia mwpe;J mjw;F Vw;w fz;zhofs; my;yJ fhd;blf;l;
byd;Rfis cgnahfj;Jg] ghh]it Fiwia eph]j;jp bra;a[k; Kiw ghh]itf;
fzf;fPL vdg]gLk;.

49. tpHp Vw;gikt[vd;why; vd;d>

kdpjdpd; fz;zpy; cs;s byd;rpdp; Ftpe;j gFjp ghh]f;Fk; bghUspd; J]uj;jpw;F
Vw;wthW

jhnd Ftpj;jd;ikia khw;Wk] jd;ikia bfhz;lJ. ,j;jd;ik tpHpapd; Vw;gikt[vdg]gLk;.

50. !;nfhl;lhgpf; ghh]it/ nghl;nlhgpf; ghh]it vdwhy; vd;d>

tpHpj;jpiuapy; cs;s Fr]rp bry;fs; mjpf xsp czh]jpwd; bfhz;l]pdhy;/ Fiwe;j
xspapYk; ghhg]g]gw;F cjt[fpd;wd. ,g]ghh]it !;nfhl;lhgpf; ghh]it vdg]gLk].
tpHpj;jpiuapy; cs;s Tk;g] bry;fs; mjpf xspapy; bray;gLtjpdhy; ,j;bjhFjp
mjpfj; bjspthf bray;gl;L epwq;fis czu KofpwJ. ,g]ghh]it nghl;nlhgpf; ghh]it
vdg]gLk;.

51. CLR vd;why; vd;d>

40 tajpidf; fle;jth]fs; fz; mWit rpfpr]ir \yk; fz;zho kw;Wk; fhz;lhf;l;
byd;!; cgnahfpg]gjid jtph]j;J/ fz;zpy; cs;s ,aw;ifahd byd;il vLj;Jtpl;L
ntW byd;il fz;qs; jpUk;g gjpa itf;fg]gLfpwJ. ,k;Kiwf;F bjspthd byd;!;

khw;W my;yJ CLR vd;W miHf;fg]gLfpwJ.

52. IOL vd;why; vd;d>

40 taJ fle;J CLR khw;W byd;!; xj;J nghfhkYk;/tpHp Vw;gikt]d;ik
,He;jth]fSf;Fk; bjhiyt[kw;Wk; mUfpy; cs;s bghUI]fis vspjhf fhz
gad;gL;]g]gLk; gy; Kfg]g[byd;!; IOL vd;W miHf;fg]gLfpwJ.

53. FUI;Likak; vd;why; vd;d>

fz;zpd; gpd; tpHpj;]piuapd; euk;g[njhd;Wk; gFjpapy; czh] bry;fs;
fhzg]gLtjpy;iy.

vdnt ,g]gFjpapy; tpGk; gpk;g;]jpid czu KoahJ. ,g]gFjapidf; fz;jl;L

vd;Wk; ghh]itia czuhj gFjpahf cs;sjpdhy; FUI;Likak; vd;Wk; miHf;fg]gLfpwJ.

54. fhJ nfshikf;fhd ,uz;L fhuzq;fs; jUf.

1. fhf;spahtpy; mike;Js;s rpwpa kaphpiH bry;fs; gGjiltjhy; my;yJ mHpf;fg]gLtjhy; fhJ
nfshj;jd;ik Vw;gLfpwJ.

2. Jisa[s;s brtpg]giwapy; fhJ nfshj;jd;ik Vw;gLfpwJ. eLr;brtpapy; neha; bjhw;wy;/
mUfhikapy; Vw;gLk; btor]rj;jk;/ jiyf;fhak; Mfpait Jis Vw;glf; fhuzq;fshFk;.

55. fhJ nfshj;jd;ikapd; tiffs; ahit>

1. flj;jy; tif 2. Cz]jy; tif 3. fyg]g[f; flj;jy; tif 4. euk;g[nfshshWfs;.

56. fh]g!; Y}l;oak; / fh]g!; my;gpfd;!; ntWgLj;Jf.

• fh]g!; Y}l;oak; vd;gJ mz;l mq njhd;wp btspnawpa fhypahd fpuhgpad; ghypf;fspd;
khWghlhFk;. ,J fUtsh]r]rp fhj;jpy; g[nuhb\$!;ouhd; Qhh]nkhid Ruf;fpwJ.

• khjtplha; epiy Kotpy; fh]g!; Y}l;oakhdJ Xh] jpR tLthf mika[k;. ,t;tikg]gpw;F fh]g!;
my;gpfd;!; vd;W bgah].

57. khjtplha; RHw;rpapd; \d;W epiyfs; ahit>

1. @ghypf;Fyhh] epiy (m) bgUf;fepiy 2. ypa{!;oay; epiy (m) Kd; khjtplha; epiy

3. bkd;!;LUty; epiy (m) khjtplha; epiy

58. thbrf;lkp/ oa{bfg;lkp vd;why; vd;d>

thbrf;lkp: Mz;fSf;fhd epiyahd fUj;jilKiw. ,k]Kiwapy; tpe;J ehsj;jpd; xU gFjp

Jz;of;fg]gLk;.

oa{bfg;lkp: bgz;fSf;fhd epiyahd fUj;jilKiw. ,k]Kiwapy; mz;l ehsj;jpd;

xU gFjp Jz;of;fg]gLk;.

2. Ez;qaphpay;

1. J}a tsh]g]g[vd;why; vd;d>

xU jput Clfj;ij gy ePh]kq;fspy; nrhjdf; Fhapy; my;yJ nrhjdf; Tl cgfuzj;jpy; ,l;L xnu ,dj;ijr]
rhh]e;j Ez;qaphpapd; bry;fis tsh]j;jny J}a tsh]g]g[vd]g]gLk;.

2.og]sha;L bry;tif tsh]g]g[vd;why; vd;d>

og]sha;L bry;tiffs;/ fU \yj;jpy; bgwg;gl;l Fwpg]gpl;l jpRf;fshd Eiuapuy;/
rpWePufk; Mfpatw;wpd; bry; tsh]g]g[fspy; ,Ue;J bgwg]gLfpd;wd.

3.Y}ap!; gh!;oa{h] fz;Lgpoj;j jLg]g{rpfs; ahit>

1. fhyuh jLg]g{rp - nfhHp 2. Me;j;uhf;!; jLg]g{rp - ML

3. btwpeha;f;fo nugp!; jLg]g{rp - kdpjd;

4.Y}ap!; gh!;oa{hpd; rpfur] rhjidfis vGJf.

1. gh!;oa{h] Kiwg]ghy; gjg]gLj;Jjy;

2. bjhw;Waphpapd; tPhpaj;ijf; Fiwj;J mjd; neha; vjph]ghw;wy; jpwid J]z;Lk; rf;jpia
Cf;Ftpj;jy;

3. MLfspy; Me;j;uhf;!; jLg]g{rp/ nfhHpfspy; fhyuh jLg]g{rp kw;Wk; kdpjdp; nugp!;
jLg]g{rp fz;Lgpoj;jy;.

5.bry;tHp bjhlh] itu!; tsh]g]g[vd;why; vd;d>

- bjhlh] tHpr]bry;fs; vz;zpylq;fh Kiwapy; ,ul;og]gilaf; Toa jpwd; bgw;wit.
- bjhlh] tHpr]bry;fs;/ xU bry;ypd; tifapd; jpOh] khw;wj;jhnyh my;yJ g[w;Wneha;r; bry;fspd; tsh]g]g[fs; ,Ue;njh bgwg]gLk;.
- tsh]f;f rpukhd itu!;fs;/ bjhlh] tHpr]bry; tiffspy; tsh]f;fg]gLfpd;wd.

6. fhuyh nehapd; mwpFwpfs; ahit>

1. the;jp 2. tapw;Wg]ngfh;F 3. ePhpHg]g[4. jhJ cg]g[fs; ,Hg]g[5. ,uj;jj;jpd; mkpy;jd;ik

mjpfhpg]g[6. ,uj;jj;jpd; mlh]j]jp mjpfhpg]g[.

7. knyhahtpd; tiffs; ahit>

1. gpsh!;nkhoak; itthf;rpdy; Vw;gLk; blh]rpad; my;yJ gpizd; blh]rpad; knyhpah.
2. gpsh!;nkhoak; knyhahtpdhy; Vw;gLk; Fthh]l;ld; knyhpah.
3. gpsh!;nkhoak; xntypdhy; Vw;gLk; icy;L blh]rpad; knyhpah.
4. gpsh!;nkhoak; @ghy;rpnguj;jpdhy; Vw;gLk; khypf;dd;l; blh]rpad; knyhpah.

8. mkPgpahrp!; vd;why; vd;d>

- vz;lkpgh Qp!;nlhiyof;fh vDk; g[nuhl;nlhnrhth xl]Lz;zpahy; Vw;gLfpwJ.
- ,t;tkpghtpd; Lnuhg]ngn nrhitl;L neha; cz;lhf;Fk; ngnjh\$Pdpf; epiyahFk;.
- Lnuhg]ngn nrhitl;Lfs;/Flypd; kpa{f;nfhrt]tpidj; jpd;W cs; bry;fpd;wd.
- ,uj;jk; fye;j ngjp ,jd; mwpFwpahFk;.

9. nfhHpf; fUt[s; tsh]g]g[vd;why; vd;d>

- kpft[k; vspa kw;Wk; rpf;fdkhd tsh]g]g[Kiwahf vz;zw;w tpyq;F itu!;fis tsh]f;Fk; bra;Kiw nfhHpf; fUt[s; tsh]g]g[Kiw vdg]gLk;.
- ,k;Kiwapy; fUt[w;w nfhHp Kl;ilfs; mtw;wpd; milfhf;Fk; fhj;jpy; 5 ehl;fs; Kjy; 12 ehl;fs; tiuapy; bra;Kiw;F njh]e;bjLf;fg]gLfpd;wd.
- 36⁰Cy; milfhf;fg]gl;l Kl;ilfs; itu!; tsh]g]g[f;F Vw;witaHf;.

10. va;l;!; nehia fz;lwpak; Kiwfis tpthpf;ft[k;.

1. **viyrh** : El;gkhd Kjy; epiy uj;jr] nrhjid. Md;l;oghofis fz;lwpag]gad;gLfpwJ.
2. **bt!l;lh]d; gpshl**; : vr].l.tp. bjhw;wpid cWjp bra;a vr].l.tpf;F vdf; Fwpg]gplg]g;l nrhjid. vr;.l.tp . itu!;f;F vjpuhd Md;l;oghofis ,uj;jj;jpy; fz;lwpak; nrhjid.

11. Nndhrp!; vd;why; vd;d>

- tpyq;FfspkUe;J kdpjdpf;Fj; bjhw;Wk] xl;Lz;zp neha;fs; Nndhrp!; vdg]gLk;.
- kdpjdp; bjhw;Wk; xl;lz;zp vt;tpj ed;ika[k; milahJ. Mdhy; kdpjd; ghjpp]gilfpwhd;.

12. N Me;j;ug]ngndhr!; vd;why; vd;d>

- tpyq;Ffs; ,Ue;J kdpjDf;Fj; bjhw;Wk; xl]Lz;zp neha;fshFk;.
- ,jpy; kdpjd; xU epfH;t[tpUe;njhk;gpahf kl]Lkpy;yhky; xl]Lz;zp thH;f;if; RHW;rpapy; xU Kf;fpa ,izg]ghFk].v.fh. khL kw;Wk; gd;wp ehilhg]g[Gf;fs;.

13. ouhd;!;lf;!d; vd;why; vd;d >

- ghf;Ohpnahng\$; (itu!;fs;) Vw;W Ch]jpfshf bray;gl]L xU tHq;fp ghf;Ohpaj;jpy; cs;s o..vd;.V gFjppid kw;bwhU Vw;g ghf;Ohpaj;jpDs; brY;Jk; KiwahFk;.

14. g[nuhl]nlhnrhth neha; fpUkpf; lyk; cUthFk; VnjDk; \d;W neha;fis Fwpg]gpLf.

1. ohpg]gndhnrhkh nfk;gp;!; ---- Mg]gphpf;f J}f;f tpahjp
2. yP!;nkdpah nlhndhthdp ---- fhyh mrhh]
3. vd;lkPgh Qp!;lhiyl]ofh ----- mkPgpahrp!;

15. va;l]!; nehahspfSf;F njitahd Md;l]o itu!; kUe;Jfs; vit >

1. mrpnlh ijkpod; (AZT)
2. \$pnlht[od;
3. irf;nshtph]

3. neha;j;jil fhg]gpay;

1. bry;tHp neha;j;jilfhg]g[vd;why; vd;d>

- bry;tHp neha;j;jilfhg]g[bray;gLj;JtJ bry; er;rhf;f tif T bry;fs; MFk;.
- ,it neha;f;fpUkpfshy; jhf;fg]gl;l bry;fisf; Fwpg]ghf jhf;fp mHpf;fpd;wd.
- g[w;Wnehahy; ghjpf;fg]gl;l bry;fis mHpg]gjw;Fk; tHptFf;fpwJ.

2. jputtHp neha;j;jilfhg]g[vd;why; vd;d>

- jputtHp neha;j;jilfhg]g[bray;gLj;JtJ B ypk;@nghir;l;Lfs; MFk;.
- B bry;fs; / neha; vjph]g]g]g[bghUs; ,k;a[ndhhFnshg]ypd;fis cw;gj;jp bra;fpd;wd. ,it neha; fpUkpfis mHpf;fpd;wd.

3. ,aw;if neha;j; jilfhg]g[my;yJ ,ay;g[neha;j jilfhg]g[vd;why; vd;d>

- may;bghUl;fs; clypDs; EiHtij gy;ntW jLg]g]fs; \yk; jil bra;J mHpf;fg]gLjy; ,aw;if jil fhg]g[vd]g]Lk;.
- mitfs; 1. cly; mikg]g[rhh]e;j jilfhg]g[2. cly; bray; rhh]e;j jilfhg]g[3. bry; tpGq;Fjy; 4. tPf;fk;.

4. iynrhir; vd;why; vd;d>

ghf;ohpahf;fspd; bry;Rtiu brhpf;ff; Toa fz;zPh] kw;Wk; ckpH;ePhpy; cs;s clw;bray;

rhh]e;j jilf;fhuzp iynrhir; MFk;.

5. bry; tpGq;Fjy; vd;why; vd;d>

- ,ay;g[neha;j;jil fhg]g[Kiwapy; bry;tpGq;Fjy; Kf;fpxhd xd;whFk].
- bry; tpGq;Fjypy; ,uj;j bts;isaqf;fs; (nkf;nuh@ng\$;fs;/ epa{]nuh@gpy;fs;) ghf;Ohpaq;fs;/ itu!;fs; kw;Wk; rpjtile;jbry;fs; Mfpatw;iw tpGq;Ffpd;wd.

6. brayhf;f jilfhg]g[kw;Wk; ke;jkhd neha;j; jilfhg]g[ntWg]Lj;Jf.

brayhf;f jilfhg]g[- neha;f;fpUkpfspd; \ykhfnth my;yJ jLg]g[kUe;Jfs; brY;Jtjd;

fhuzkhfnth cUthFk; jilfhg]g[.

ke;jkhd neha;j; jilfhg]g[- jilfhg]g[]; jpwDila kdpjhpypUe;J jilfhg]g[]; jpwdw;w xU

kdpjUf;F Md;l;oghpfs; nghd;w jilfhg]g]g[bghUl]fis brY;Jtjpdhy; bgw]g]Lk; FWfpa

fhy neha; vjph]g]g[[:jpwd;.

7.vjph]g]g[bghUs;fspd; \d;W Kf;fpa gzpfs; ahit>

1. ghf;Ohpaq;fs;/itu!;fs; nghd;w Jfs; bghUI]fisj; jphpgilar] bra;fpd;wd.
2. bry; tpGq;Fjiy vspjhf;Fk; tifapy; ghf;Ohpaq;fspd; btspg]g[w g{r}rhf mikfpd;wd.
3. ghf;Ohpaq;fspdhy; btspnaw;wg]gLk; er]Rg] bghUI]fis braypHf;f bra;fpd;wd.

8.kz;zPuypd; gzpfs; ahit>

1. kpft[k; tajhd uj;j rptg]gqf;fis mHpj;jy;.
2. rptg]gq cw;gj;jpf;F khw;W ikak;/ rptg]gqf;fis njf;fp itf;Fk; cWg]ghFk;.
3. ,uj;j XI] ghijapy; Ez;fpUkpfs; nghd;w may; bghUI]fis tof]Ljy;.
4. Mz;o\$d;fSf;bfjpuhf jilfhg]g[eltof;iffis KLf;fp tpLjy; ,jd; Kf;fpa gzpahFk;

9.,k;a[ndh\$d; vd;why; vd;d>

- may;bghUs;fs; Md;o\$d;fs; vdg]gLfpd;wd. ,tw;wpw;F ,k;a[ndh\$d; vd;w xU bgah] cz;L.
- ,k;a[ndh\$d; vd;gJ jilfhg]g[eltof;ifiaj; J}z;Lk; \yf;TwhFk;.

10.Mz;o\$d; vd;why; vd;d>

- Mz;o\$d; vd;gJ Mz;oghoa[Indh/ bry;tHp neha; jilfhg]gpy;<LgLk; bry;fSIndh tpidg[hpa[k; \yf;TwhFk]. (my;yJ)
- bghJthf/ jilfhg]g[eltof;iffis; J}z;Lk; braypy; <LgLk; \yf;TWfs; Mz;o\$d;fs; vd;W miHf;fg]gLfpd;wd.

11.Qhg]bld;fs; vd;why; vd;d>

- Qhg]bld;fs; Rakhf jilfhg]g[eltof;if epfH;t[ifis J}z;lhJ. Vw;fdnt cz;lhf;fg]g]l Mz;oghofSld; kl]Lnk tpidg[hpa[k;.
- Qhg]bld;fs; KGikahd jilfhg]g[eltof;iffspy; <Lgl ntz;Lbkdp;/ vLj;Jr; bry; \yf;TWfSld; mit ,izf;fg]g]oUf;f ntz;Lk;. v.fh. il - iel]nuhgPdhy;.

12.ghunlhg] kw;Wk; vg]gpnlhg]gpil ntWgLj;Jf.

- Mz;o\$Dld; ,iza[k; Mz;oghog] gFjpf;F ghunlhg] vd;W bgah].
- ghunlhg]g[ld; Fwpg]ghf ,iza[k; Mz;o\$d; gFjpf;F vg]gpnlhg] vd;W bgah].

13. ,k;a[ndh - xLf;fp kUe;Jfs; ahit>

- ,k;a[ndh - xLf;fp kUe;Jfs; vd;gJ cWg]g[khw;W rpfpr]irapy; khw;Wj;jpR Vw;gth]fSf;F mspf;fg]gLk; kUe;jhFk].
- ,itfs; jilfhg]ig kl]Lg]gLj;Jk; kUe;JfshFk;.
- v.fh. irf;nsh!;ngghpd; / !;Ouha;Lfs;

14. ijk!pd; Kf;fpa gzp ahJ>

- ijkpf; ypk;@nghir]Lfis cw;gj;jp bra;tnj ,jd; Kf;fpa gzpahFk;.
- ijk!hy; cz;lhf;fg]gLk] ijKypd;/ ijnkhrpd; kw;Wk; ijnkghap]od; Mfpa Qhh]nkhd;fs; \yk; ypk;@nghir]LfSf;F jilfhg]g[; jpwd mspf;fpwJ.
- bry;tHp neha;j; jilfhg]g[cUthf;fk;.

15. ky;l;og]gps; !;fpsnuhrp!; (gy; TI;L brjpy; neha;) vt;thW vz;lhfpwJ>

- ky;l;og]gps; !;fpsnuhrp!; vd;gJ xU Rajilfhg]g[nehahFk;.

- ,J euk;g[fspd; ikaypd; ciwkPJ Mz;oghofs; gotjhy; cz;lhfpuJ.
16. ,uz;lhk; epiy epzePh] cWg]g[fspd; bgah]fisf; Fwpg]gpLf.
1. kz;zPuy; 2. epzePh] Kor]Rfs; 3. nfhiHg]glyk; rhh]e;j epzePhpaj;
jpRf;fs;.

17. nkf;nuh@ng\$;fs; vd;why; vd;d>
- nkf;nuh@ng\$;fs;/ ghf;Ohpaq;fs;/ itu!;fs; kw;Wk; rpjtile;j bry;fs; Mfpatw;iw tpGq;Ffpd;wd.
 - nkf;nuh@ng\$;fspy; cs;s ghf;Ohpaq;fis brhpf;Fk; behjpf; / ntjpag]bghUI;fs;/ neha;f;fpUkpfis mHpf;fty;yit.
18. mdh@igyhf;rp!; vd;why; vd;d>
- rpyrkak; myh]\$d;fs;/ ghjpf;fg]gl;l kdpjdp; tpiuthdJk; jPtpukhdJkhd tpidfisj; njhw;Wtpj;J ,wf;fr] bra;af;TLk;. ,t;tpidf;F mdh@igyhf;rp!; vd;W bgah].
19. Kjy; epiy epzePhpa cWg]g[fs; vit >
1. vYk;g[k\$;i\$ 2. ijk!; 3. gwitfspd; @ngg]hprpa!; ig.
20. kh!;l] bry;fs; rpjitt[Wk; nghJ btspnaw;wg]gLk; ntjpa rkpf;iQg] bghUI]fs; vit >
1. Qp!;likd; 2. brul]nlhdpd; 3. g[nuh!;nlhfpshd;od;
21. FUjpahf;fk; vd;why; vd;d >
- T ypk;nghir]Lfs;/ B ypk;nghir]Lfs; kw;Wk; gytif ,uj;j bry;fs; vYk;g[k\$;i\$apy; cw;gj;jpahfpd;wd. ,e;epfH;r]rpf;F FUjpahf;fk; vd;W bgah].
22. ijk!; Rug]gpahy; cUthf;fg]gLk] Qhh]nkhd; nghd;w fhuzpfs; vit >
1. ijKypd; 2. ijnkhrpd; 3. ijnkghapl]od;
23. mg]nghg]nlhrp!; vd;why; vd;d >
- ijk!; Rug]gpapy; cUthFk; ypk;nghir]Lfs; /xU rjtPjk; kl]Lnk ijki! tp]L btspnaWfpd;wd. kw;wit tiuaWf;fg]g]l bry; ,wg]g[Kiwapy; mHpf;fg]gLfpd;wd. ,e;epfH;r]rpf;F mg]nghg]nlhrp!; vd;W bgah].
24. ,k]a{ndhFnshg]ypd; tiffs; ahit >
- IgG , IgA , IgM , IgD , IgE.
25. Rajilfhg]g[neha;fSf;F \d;W vLj;Jfh]Lfs; jUf.
1. ,d;Rypd; njitg]gLk; lahgl]O!; 2. ky;ogpy; !;fpnuhrp!; 3. upa{kh]l]ha;L Mh]j;]piul]o!;

4. jw;fhy kugpay;

1. jyhrPkpah nehapd; mwpFwpfs; ahit>
- 1.vYk;g[k\$;i\$ braypy; FiwghL. 2. btspg]g[w uj;j Xl]l uj;jf;frpt[
3. kz;zPuy;kw;Wk; fy;yPuy; tPf;fk;.
- 2.Ng]gh] gf; vd;why; vd;d>
- kug[bghwpapay; (kWnrh]f;f) ghf;Ohpaq;fs; Ng]gh] gf;Ffs; vd;W miHf;fg]gLfpd;wd.
 - flypy; cs;s vz;bza; khRf;fis ePf;Fjy; bgUk; gq;nfw;fpd;wd.
 - vz;bza; fHpt]fspy; cs;s Mf;nld;fs;/irypd;fs;/fw;g{uk; kw;Wk; blhYtPd;fis rpjif;f ty;yJ.
- 3.nfhpnahilg]gpq;fpd; gad;fs; ahit>

1. fh]g]g fhy;]py; Mk;dpnahbrd;lrp!; Kiwapd; \yk;gpwf;fg]nghFk; FHe;ijapd; ghy; fz;lwpag]gLk;.
2. kugpay; FiwghLfis fz;lwpayhk].
3. Fnuhnkhrhk; gpwH;r]rpfs;/ mDg]gpshapo nghd;w Fiwfisf; fz;lwpayhk].

4.re;jjp tHpj;bjhLh] Ma;t[vd;why; vd;d>

xU FLk;gk; my;yJ re;jjp tHpj;bjhLh]fspy; xU Fwpg]gpl]I nehapd; my;yJ \$Pd;gz;g[

btspg]ghl]oid Th]e;J Ma;jy; re;jjp tHpj;bjhLh] gFj;jha;t[vd;W miHf;fg]gLk;.

5.DNA E}yfk; vd;why; vd;d>

DNA E}yfk; vd;gJ xU capUf;Fhpa midj;Jg] gFjpfspd; thpiria cs;slf;fpa nrfhpg]g[.

6.c DNA vd;why; vd;d>

mRNA f;fspd; \ykhf mtw;wpid cUthf;fpa \$Pd;fs; my;yJ DNA Jz;lq;fs; cDNA my;yJ epiwt[Wg]g[DNA vd]g]gLk].

7.\$Pd; rpfpr]ir vd;why; vd;d> mjd; tiffis vGJf.

- kdpjdp; jtwhd \$Pd;fSf;Fg] gjpyhf/ jpUj;g]g]I \$Pd;fis EiHg]gjhFk;.
- cly; bry; \$Pd; rpfpr]ir Kiw.
- fUr]bry; tHp \$Pd; rpfpr]ir Kiw.

8.Fnshdpq ; tiauW.

- Fnshdpq; vd;gJ kubghj;j caphpfis gpujpfshf cw;gj;jp bra;a[k; bra;KiwahFk].
- tsh] kugpay; kw;Wk; fUtsh] ,ay; Jiw mwpt[bghpJk] ,jw;F cjt]fpwJ.

9.khWghlilij; vd;why; vd;d>

1. fUt[w;w Kl]ilapy; ik]l]hrp!; gphpt[fis bjhlh]e;J eilbgWtjd; \yk; vz;zw;w bry;fs; cUthf;pd;wd.
2. ,r]bry;fs; gpd;dh] totj]pYk; braypYk; gy;ntW bry; tiffshf khWghlilifpd;wd.

10. re;jjp tHpj;bjhLh] tiuglk; vd;why; vd;d>

- ,J xU FLk;gj;jpd; xU Fwpg]gpl]I gz;gpd; tuyhw;iw czh]j;Jk;.
- ,J gy Fwfpshy; tiuag]gLk;. xU Fwpg]gpl]I kug[neha; re;jjp tHpj; bjhlh]fspy; vt;tpjk; btspj; njhd;Wfpd;wJ vd;w mjd; ghijia mwpe;J bfhs;syhk].

11. nfhpnahfpuhk; vd;why; vd;d>

xU bry;ypy; cs;s midj;J Fnunhknhrk]fSk; gphpf;fg]g]L mitfs; thpirahfmikf;fg]gLk] Fnunhknhrk] thpir;F nfhpnahfpuhk] (m) ,onahfpuhk] vd;W bgah].

12. nfhpnahilg]gppq; vd;why; vd;d>

- nfhpnahilg]gppq; vd;gJ a{nfhpnah] bry;fspy; cs;s ,ul]il vz; Fnunhknhrk]fspd; midj;J gz;g[fisa[k] tpsf;Ffpd;w Fnunhknhrk]fspd; bjhFg;ghFk;.
- Fnunhknhrk;fs; epiy;j totik]g]f; Fzq;fshd vz;zpf;if/ totk;/ gUkd;/,ud;lhk; epiy RUf;fk] g[\$tpfpjk] kw;Wk; epwf;fw;iw mikg]g[\yk] milahsk] fhzg]gLk].

13. Fnshdpq; btf;lhh]fs; vd;why; vd;d>

- btf;lhh]fs my;yJ Ch]jp DNA vd;gJ may; DNA Jz;l;ij jd;Dld; ,izj;Jr] Rkf;fpd;w DNA f;fs; MFk].
- v.fh. gpsh!;kpL DNA kw;Wk; ngf;Ohpnah@ng\$;.

14. ngypd;l]nuhk; fhuthpir vd;why; vd;d>

- xU ngypd;l]nuhk] fhuthpir vd;gJ xU Fwpg]gpl]I Kiwapy; fhuq;fs; mike;J/mit DNA d; vjbujph]j; jpirapy; fhzg]gLk].

- cjhuzkhf DNAd; xU rq;fypapy; fhuthpir GAATTC5'- 3' jpirapYk]/ mjd; epiwt[Wg]g[r] rq;fypapy; 3' - 5' jpirapy; CTTAAG vjphpilahf mike;jpUf;Fk].
15. kWnrhh]f;if DNA vd;why; vd;d>
- kug[g] bghwpapay; DNA kWnrhh]f;if bjhHpy;El]gj;jpy;/ may; DNA Jz;lkhdJ DNA ypnf!; behjpapd; \yk; gpsh!;kpl] DNA Ds; EiHf;fg]g]L xd;wpizf;fg]g]Lk].
- ,t;thW gpsh!;kpl] DNA a[lid; xd;wpize;j may; DNA kWnrhh]f;if DNA vdg]g]Lk].
16. kdpj \$Pd; tq;fp vd;why; vd;d>
- kdpj \$Pd; tq;fp my;yJ \$Pndhk] bra;jp nrfhpg]g[vdg]gLtJ tiuaWf;fg]g]l] \$Pd;fspd;thpirKiwg]gLj;jjiyf; Fwpf;fpd;wJ.
- tiuaiw bra;ag]g]l] \$Pd;fns vjph]fhyg] gad;ghl]ow;F mog]gil bra;jpffshfpd;wd.
17. g[nuhl]onahkpf;!; (g[ujr] bra;jpapay;) vd;why; vd;d>
kdpj \$Pndhkpy;/ gytif g[ujq;fis Ma;t[bra;jYk;/ mtw;wpw;Fhpa bry;fs; kw;Wk;
\$Pd;fisf; fz;lwpjYk] g[nuhl]onahkpf;!; (g[uj bra;jpapay;) MFk;.
- 18. vhpjzy; fhp vd;why; vd;d>
- vhpjzy; fhp vd;gJ g[uj mikg]gp id tpsf;Fk; fpuhgpf;!; fzpdp khjphpahFk;.
- g[uj mikg]g]/ xU g[uj;jpy; cs;s mkpndh mkpyq;fspd; gz;g[fisa[k]/ bray;ghl]oida[k; mwpa cjt]fpwJ.
19. caphp jftypapy; cjt[k; bkhHpfs; vit >
C / C++ / \$hth / nghh]l]uhd; / iydf;!; / a{dpf;!;.

5. Rw;Wr] NHy; mwptpay;

- 1.caphpa kUj;Jtf; fHpt[fs; vd;why; vd;d> mij vt;tpjk; ePf;FtJ>
- kdpj cly; fHpt[fs;/ J]f;fp vwpag]g]Lk] kUe;Jfs;/ er]Rj;jd;ik bfhz;l kUe;Jfs;/ ,uj;jk;/ rPH;/ tpyq;Ffspd; fHpt[fs;/ caphpa bjhHpy; El]g fHpt[fs;.
- caphpa kUj;Jtf; fHpt[fs; vhp]f;fg]g]Lr] rhk]gyhf;fg]g]Lk;.
2.jkpH; eh]joy; cs;s caphpa kpFts ikaq;fs; vit >
- kd;dhh] tisFlh caphpa kpFts ikak].
- epyfphp caphpa kpFts ikak;.
3.Nhpa Mw;wypd; epiwfs; ahit>
- cyfbkq;Fk; fpilf;fToa/ Rw;Wr] NHiy khRgLj;jhj Mw;wy;.
- Xspr]nrh]f;if kw;Wk; fz;zho tPL tpist[Mfpa epfH;t[fspd; btspg]ghl]od; NH;epiy rkd;ghl]il guhkhpf;f cjt]fpwJ.
- gok bghU]fshd epyf;fhp/ vz;bza; kw;Wk; tha[f;fspdhy; Vw;gLk; Rw;Wr] NHy; nL .jpy; ,y;iy.
4.caphpa kpFts ikaj;jpd; gz;g[fs; ahit>
- ,J kf;fs; Kf;fpakhf mq;fk] tpf;Fk; xU epyk]/fly; kw;Wk; flw;gug]ghFk;. ,jd neh;fk] KG ghJfhg]g] kw;Wk; jPtpu bjhlh]e;j caphpag] gy;tifik cw;gj;jp MFk;.

- ,aw;ifahd kw;Wk; eph]tffpf;fg]gLk; NH;epiy kz;lyq;fis fz;fhzpf;ft[k;/ mjpy; Ma;t[ffis nkW;bfhs;st[k;/ nkYk; gapw;rp bgwt[k; cUthf;fg]gl]l rpW mikg]ghFk;.

5.caphpaj; jPh]t[vd;why; vd;d>

Ez;qaphpfs;/ jhtuq;fs; nghd;w caphpag] bghUl]fif; bfhz;L Rw;Wr]
NHiy

Rj;jk; bra;jy; caphpaj; jPh]t[MFk].

6.fhh]gd; jdpikg]gLj;Jjy; vd;why; vd;d>

- cyfshtpa btg]g cah]jtf; fl]Lg]gLj;j fhh]gd; -il- Mf;ililnah my;yJ fhh]gd; gFjpiannah ntW vq;fhtJ nrkpj;J itj;jy;. (my;yJ)
- fhh]gd;-il- Mf;ilil MH;flypnyh/ vz;bza; fpzWfspnyh/ rpy ePh] epiyfspnyh nehphilahf brY;jp/ mjpyyUe;J jg]gpf;f tplhky; jdpikg]gLj;Jjy;.
7.kiH ePh] nrhpg]g[vd;why; vd;d> mjdhyy; Vw;gLk; gad;fis Fwpg]gpLf.
- kiH ePiu nehphilahfnth my;yJ g{kpf;Fs; brY;j;jpnah epyj;jo ePh]tsj;ijg] bgUf;Ftnj kiH ePh] nrhpg]g[vdg]gLk].
- gad;fs;

1..epyj;jo ePh] mst[ghJfhf;fg]gLfpwJ.2.epyj;jo ePh]kl]l mst[FiwTJ jLf;fg]gLfpwJ

3.flnyhug] gFjpfspy; fly;ePh] epyj;jpw;Fs; g[FtJ jLf;fg]gLk].

8.nkfq;fspy; J}t]jy; vd;why; vd;d>

cyh]gdp my;yJ bgh]lhrpak; mnahilL Jfs;fis ePh]nfhj;j nkfq;fs; kPJ J}tpdhyy; rpy rkak; kiHg] bghHpt[Vw;gLk;.

9.Xnrhd; bghj;jy; vd;why; vd;d>

tha[kz;lyj;jpy; Xnrhd; glyk; kpft[k; mlh]t[Fiwe;J bkypjha;f; fhzg]gLk] gFjp Xnrhd; bghj;jy; vdg]gLfpwJ.

10.Xnrhd; Fiwg]g[bghU]fs; ahit>

Fnshnuh g[Snuh fhh]gd;fs my;yJ @gpuhd; tha[f;fs;/ g[nuhkpd; Tl]Lg] bghUs;fs;/

iel]ju\$; Mf;!Lfs; kw;Wk; kpijy; g[nuhkpl] Mfpait Xnrhd; Fiwg]g[bghU]fs; MFk;.

11. bjhlh]gpayhd tWik vd;why; vd;d>

kw;w cyf ehLfSld; xg]gpLk; nghJ Fiwe;j tsk] my;yJ tUkhdj;ijf; bfhz;l xU rKjhak; my;yJ ehl]od; epiyf;Fj; bjhlh]gpayhd tWik vd;W bgah].

12. cyfshtpa btg]g cah]t[vd;why; vd;d >

g{kpapd; ruhrhp btg]g mstpy; Vw;gLk; mjpfhpg]g[MFk;.

13. Xnrhd; ,Hg]gpdhy; Vw;gLk; tpist[fs; ahit >

- jhtuq;fspy; : tpir]ry; ghj]pg]g[/ fhLfspy; cw;gj;jp ghj]pg]g[.
- tpyq;Ffspy; : kPd FQ;Rfs; / rpWtpyq;Ffs; ghj]pg]g[.
- kdpjhpy; : njhy; g[w;W neha; / vh]jpkh / fz;g[iu / fz;ghh]it nfhshW.

14. cg]g[ePiu FoePuhf;Fk; Kiwfs; ahit >

1. tofl]ly; (Mtpahf;fp kPz;Lk; Fspuitj;jy;) 2. jiyfPH; rt]t[L guty;

6. gad;ghl]L caphpay;

1.braw;if Kiw tpe;J}l;lj;jpd; ed;ikfs; ahit>

- fhyy;eilfis ,dg]bgUf;fj;jpw;fhf ke;ijahf nrh]f;f ntz;oaajpy;iy.

- ,k;Kiw fUt[Wjypd; tPjj;ij mjpfhpf;fr] bra;a[k].
- fhakile;j khLfspd; tpe;J jputk; rpidg]gL;jYf;F cjt[k].
- kugpay; rhh]e;j mrhjhu zg] gz;g]fisnah/ nehpd; fhuzj;jpidnah fz;lwpayhk].

2.btspapdf; fyg]g[vd;why; vd;d>

- rpwpJ (my;yJ Kw;wpYk]) beUq;fpa my;yJ bjhlh]gw;w caphpdq;fis fyg]g[lwr; bra;tjhFk].
- ,j;jifa ,dg]bgUf;fj;jpy; <LgLk; caphpfs;/ mitfspd; 4 Kjy; 6 jiyKiwapyhd Kd;ndhh]fspd; bghJj; bjhlh]ghd gz;gw;witfshFk].

3.xU nehaw;w eykhd fhy;eilia vt;thW fz;lwptJ>

- fhy;eilfs; bghypt[!DK]/ RWRWg]ghft[k]/ gsgsg]ghd njhiya[k] bfhz;L fhzg]gLk].
- mitfspj;jpy; rhjhuzg] grpa[k]/ ey;y cwf;fKk; fhzg]gLtJz;L.

4.KI]ilfisj; njh]e;bjLf;Fk; nghJ ehk; ftdpf;f ntz;oaitfs; ahit>

- KI]ilfs; brHpg]ghf ,Uf;f ntz;Lk].
- kpfj]bghpa (m) kpfr]rpwpa KI]ilfis jtph]j;J jFe;j mst[ilajhf ,Uf;f ntz;Lk].
- btsph]g] gGg]g[KI]ilfis tpl mlh] gGg]g[epw KI]ilfs; Kd;djh]f bghwpf;fpd;wd.
- g]j]pajhf ,lg]g]l KI]ilfisna bghpJk] tpUk]gg]gLtJz;L.

5.FWf;Ff; fyg]g[my;yJ gpw ,df; fyg]g[vd;why; vd;d>

- Kw;wpYk; gpw ,d caphpfs; xd;Wld; xd;W fyf;fr] bra;tjhFk].
- ,f;fyg]gpy; Xq;fpa gz;g]ila kug[f; fhuzpfs; xUq;fpide;J mjpf tsh]r]rpa[k;/ tPhpaKk; cila Kjy; jiyKiwapyhd fyg]g[caphpfs njhw;Wtpf;fyhk].

6.braw;if ng!;nkf;fh] vd;why; vd;d>

- xU rpwpa gh]l]hpahy; ,aq;ff;Toakpd;dD rhjdnk braw;if ng!;nkf;fh] vdg]gLk].
- ,jak; rPuhf/ rhpahd mstpy; Jof;f cjt[tjw;fhfj; njhYf;foapy; itf;fg]gLk;rhj]dk].

7.!:blbj!;nfhg]gpd; gad;fs; ahit>

- ,jaj;jpy; rhjhuz (yg] - lg]) kw;Wk; mrjhuz xypfs;/thy;t]fspd; gzpfs; rPh]nfl mile;jhy; fz;lwpa gad;gLfpwJ.
- epnkhdpah/ Eiuapuy; vOkh nghd;w ghj]pg]g]fs; cz;lhfK; nghJ Eiuapuy; jputq;fis fz;lwpyj;.Fly; ,af;fq;fis fz;lwpyj;.

8.!:gpf;nkh khndhkPI]l]hpd; gad;fs; ahit>

1. ,uj;j XI]lj; jd;ikiaa[k;/ ,jak; bray;gLtija[k; fz;lwpa cjt[k;.

2.mjpf ,uj;j mGj;j epiyiaa[k;/ Fiwthd ,uj;j mGj;j epiyiaa[k; fz;lwpa cjt[k;.

9. QPnkhirl]nlhkPI]l]hpd; kUj;Jt Kf;fpaj;Jtk; ahJ>

- ,uj;jr] rptg]gqf;fs; FiwtJ mdPkpahitf; Fwfp;Fk;.
- ,uj;jr; rptg]gqf;fs; mjpfhpg]gJ ghypir;j]Pkpahit Fwfp;fyhk].
- epiyaw;w WBC vz;zpf;if mjpfhpg]g] ghf;Ohpah bjhw;iwf; Fwfp;Fk].
- bjhlh]e;J mrjhuz WBCvz;zpf;if mjpfhpg]g] YfPkpahitf; Fwfp;Fk].

10. MI]nlh mdiyrhpd; nkd;ikfs; ahit>

- iffshy; bra;ag]gLk; Kiwia xg]gpLk] nghJ Jy;ypak; mjpfk;.
- Fiwe;j fhy;jpy; VuhsKhd khjphpfiser; bra;Kiwg]gLj;jyhk].
- Xnu rkak; ,uz;L my;yJ gyyif nrhjid bra;Kiwfiser] bra;ayhk].
- fzf;fPLfs; njitg]gltpy;iy.

11. vd;n!h!;nfhg]gp vd;why; vd;d>

clw;FHpapd; cl]gFjpianah my;yJ gs;sq;fs; bfhz;l cWg]ignah/ xU FWfyhd/

tisa[kjd;ik bfhz;lxspiaf;flj;Jk] ,iHfs; bfhz;l cgfuzkhd vz;n!h!;nfhg]
bfhz;L Muha;tjw;F vz;!;nfhg]gp vd;W bgah].

12. fHpKf ePh] kPd;fs; vd;why; vd;d> vLj;Jf;fhl]Lfs; jUf.

- ,itfs; jk] thH;ehspd; bgUk; gFjpia ePhpYk]/ khq;+t; rJg]g[epyf; Fl]ilfspYk]/ flnyhuk; cs;s ePh]j; njf;fq;fspYk] fHpf;fpd;wd.
- v.fh. rdh!; rdh!; (ghy;kPd;)/ bgh]y; !;ghl;Lfs; (fhpkPd;)/ !Pgh!; (bfhLth).

13. kPd; Fsq;fspd; tiffs; ahit>

1. ehw;wq;fhy; Fsk; 2. tsh]g]g[f;Fsk] 3. cw;gj;jpf;Fsk] 4. gphpg]g[f;Fsk]
5. ,dg]bgUf;ff;Fsk].

14. may; ,d khLfs; \d;wpid Fwpg]gpLf.

1. b\$h]rp 2. gpbusd; Rtp!; 3. nQhy;!;Od; @gphplpad;

15. fpisf;nfh!Phpah vd;why; vd;d >

xU Fwpg]gpl]l mst[f;F nky; rpWePhpy; FSf;nfh!; fhzg]gl]lhy; mtw;iw
Ez;FHha;fshy;

cwpQ;r ,ayhJ. mjpgkhd FSf;nfh!; rpWePhpy; fhzg]gLk; ,e;epiyf;F
fpisf;nfh!Phpah
vd;W bgah].

7. ghpzhkf; nfh!;ghLfs;

1. rpwg]gpd; vd;why; vd;d>

- Xh] rpwg;gpd; vd;gJ ,aw;ifahd/ caphpay; myfhFk;.
- rpwg]gpd; ,aw;ifapd; Xh] cz;ik mikg]ghFk;.
- ghpzhkkhdJ rpwg]gpdq;fspd; kl]lj;jpnyna eilbgWk].

2. rh]t gpwg]g[f; bfhs;ifia vGJf.

- clYWg]g[xt;btnd;wpypUe;Jk; Eqf;fkhd efyikg]g[fs; njhd;Wk].
- ,e;efy;fs; ,uj;j Xl]lj;jpdhy; gpwg]g[Wg]g[fis mila[k] mq;fpUe;J mLj;j jiyKiwf;F flj;jg]gLk].

3. jFe;jd jg]gpg] gpiHj;jy; vd;why; vd;d>

- chpa khWghLfs; bfhz;lit kl]Lnk jg]gpj;J thH ,aYk].
- cfe;j ntWghLfs; Xh] tpyq;F my;yJ jhtuj;ij thH;f;ifapy; btw;wp bgwr]bra;fpwJ.
- mj;jifa caphpfs; NHypy; kpj; jFe;jdthff; fUjg]g]L thGk].

4. Qhh]o – tPd; bgh]f; tpjia TWf.

xU bghpa jhuhs ,dg]bgUf;fk; ghpkhw;wk; cs;s caphpdj;bjhifapy; gy;tif
\$Pd;fspd;

rhh]g[bjhlh] njhd;wy;vz; mLj;jLj;j jiyKiwfspYk; jpOh]khw;wk;/ njh]t[/
g[[jpa \$Pd;fspd; tut[Mfpait ,y;iybadpy; khwhjpUf;Fk;.

5. epWtdh] jj;Jtk; vd;why; vd;d>

kugpa efh]tpdhy; khWjy;fs;; bgWk; rpwpa Tl;k; / g[jpa capdj;bjhifapd;
epWtduhfpwJ. ,jw;F epWtdh] jj;Jtk; vd;W bgah].

6. rPrh fGj;J tpist[vd;why; vd;d>

- ,aw;if rPw;wj;jhy; jdpikg]gLj;jg]gl]l xU rpwpa caphpdf; Tl]lj;jpy; tpiutpy; khw;wq;fs; njhd;Wk;. ,jdhy; ,f;Tl]lk] \y caphpdj; bjhifapypUe;J Kw;wpYk; ntWglyhk].
- ,e;j ,df;Tl]lk; bghpa Tl;j;Jld; ,dg]bgUf;fk; bra;a[k; ,ay;ig ,He;J g]jpa ,dkhf khWfpwJ. ,t;tif kugpa efh]tpw;F rPrh fGj;J tpist[vd;W bgah].

7. \$Pd; FGkk; vd;why; vd;d>

capdj;bjhifapy; cs;s midj;J cWg]gpdh;fspd; kugqf;fSk; xl;Lbkhj;jkhf
\$Pd; FGkk; vdg]gLk;.

8. gy;YUtikg]g[cd;why; vd;d>

kugq jpOh] khw;wk; nghd;w rpy fhuzq;fshy; tpsf;f Koahj/ ,uz;Lf;F nkw;g]l] my;yPy;fs; bgUkstp; Xh] ,aw;if caphpdj;bjhifapy; fhzg]gLjy; gy;YUtikg]g[MFk;.

9. b\$h]k;gpshrf; bfhf;ifia TW.

- cly; gFjpfpsy; (nrhkl]nlhgpshrk;) Vw;gLk; khw;wq;fshy; ,dg]bgUf;fr; bry;fspy; (b\$h]k;gpshrk]) khWjy;fs; epfHhJ.
- ,f;bfhs;ifia btspap]lth] Mf!;L tP!;nkD; MFk;.

10. rpty; iul; tpist[(kugpa efh]t[) vd;why; vd;d>

- kugpa efh]t[xU rpwpa caphpdj; bjhFg]gpy; eilbgWk;.
- jPtpy; thGk; rpwpa Tl]lj;jpy; epfGk; ,dg]bgUf;fk] Fnunhknhrhk; khw;wj;ij Vw;gLj;JfpwJ.
- rpwpa jdpikg]gLj;jg]gl] Tl]lj;jpd; gz;g]fs; bghpa Tl]lj;jpd; gz;g]fspyUe;J khWg]Lk;. ,k;khWghLfshy; g]jpa ,dq;fs; njhd;w ,aYk].

5 kjpg]bgz; tpdhf;fs;:

1. clw; braypay;

1. fhh]nghiQl]nul]od; tiffs;/kw;Wk; mtw;wpd; Kf;fpaj;Jtj;ij jUf.

- fhh]nghiQl]nul]Lfs; fhh]gd;/iQl]u\$d;/Mf;!p\$d; nghd;wtw;iw 1 : 2 : 1 vDk] tpf]j;jpy; bfhz;Ls;sd. ,it xw;iwr]rh]f;fui/ ,ul]ilr]rh]f;fui/ Tl]Lr]rh]f;fui vd \d;W tifg]gLk].

Xw;iwr]rh]f;fiufs;:

- jdpj;j \yf;Twpdhy; Md vspa fhh]nghiQl]nul]Lfs;
- fhh]gd;fspd; vz;zpf;ifapd; mog]gilapy; ilnah!;/ oiunah!;/ bl]nuh!;/bgd;nlh!;/ bQf;nrh!; vdg] gy tiffshf mike;Js;sd.
- oiunahRfs;; - tsh]rpij khw;wj;jpy; ,ilepiyg] bghUl]fs;.
- bgd;nlhRfs; - RNA/ DNA \yf;TWfspd; Kf;fpa mq;fq;fs;.
- bQf;nrhRfs; - FSf;nfh!;/ @gpuf;nlh!; kw;Wk] fhyf;nlh!;.

,ul]ilr]rh]f;fiufs;:

khy;l;nlh!; → FSf;nfh!; + FSf;nfh!;
Rf;nuh!; → FSf;nfh!; + @g]uf;nlh!;
yhf;nlh!; → FSf;nfh!; + fhyf;nlh!;

Tl]Lr]rh]fiufs; :

- ,it gy xw;iwr] rh]f;fiufspd; xd;wpidg]ghy; Mdit.
- cly; fl]Lkhd bghUl]fshfpa ifl]od;/bry;Ynyh!; vDk; bghUl]fshf cs;sd.
- mjpf mstpy; rf;jpiaf; bfhz;L/nrkpg]g[czthf !;lhh]r] mike;Js;sJ.
- tpyq;Ffspd; fy;yPuypYk;/ jirfspYk; fpisf;nfh\$d; mike;Js;sJ.

2. jhJ cg]g[fspd; Kf;fpaj;Jtj;ij gw;wp rpWFwpg]g[]; jUf.

- ,it clw;bray; ,af;fq;fSf;F Kf;fpakhdjhFk;.
- cly; fl]Ltpj;jy;/vYk;g[/gw;fisj; njhw;Wtpf;fj; njit -fhy;rpak;/kf;dPrpak;/gh!;gu!;.
- Mf;!p\$d; fl;jYf;F njit - ,Uk;g[.
- Qhh]nkhhd; jahhpg]g[f;F njit - mnahod;.
- tsh]rpij khw;wq;fSf;F njit - khq;fdP!;/ brk]g[/ Jj;jehfk].
- euk;g[];jir; J}z;Ljy;fSf;F njit - kf;dPrpak;/ nrhoak]/ bghl]lhrpak].
- ,uj;jk] ciwjYf;F njit - fhy;rpak;.
- ,ja ,af;fq;fSf;F njit - bghl]lhrpak]/ fhy;rpak].

3. cl;fpufpj;jYk; jd;kakhjYk; gw;wp TWf.

- czt[r; brhpkhdj;jpy; fhh]nghiQl]nul]Lfs; cilg]L FSf;nfh!;/ gpuf;nlh!;/ fhyf;nlh!hFk;. g[nuhl]Od;fs; ePuhy; gFf;fg]g]L mkpndh mkpyq;fshFk;. bfhGg]g[cilg]L fpspruhy; kw;Wk; bfhGg]g[mkpyq;fshFk;.
- vspamq;f \yf;TWfs;/ jhJ cg]g[fs;/ itl]lkpd;fs; ePh] nghd;wit Fly; cwpQ;rpfspd; tHpnaclypDs; EiHfpd;wd.
- Fly; cwpQ;rpapd; epzePh] ehsj;jhy; bfhGg]g[mkpyq;fs; cs;spGf;fg]gLk;.
- gpw bghUl]fs; Fly; cwpQ;rpfspd; ,uj;jj; je;Jfpfshy; cs;EiHa[k].
- brhpf;fg]g]l] czt[g] bghUl]fs; cwpQ;rg]g]L fy;yPuy; nggh]l]ly; rpiuapd; \yk; fy;yPuiyr; brd;wile;j gpd; clypd; gpw gFjpfSf;F fl;j]g]g]L gad;g]L;j]g]gLk;.
- ,t;tpjk; czthdJ/ rf;jpahft[k; /bry; mikg]ghft[k; khWjy; bgWtJ jd;kakhf;fk; vdg]gLk;.

4. gy;ypd; nth]f;FH; rpfpr]irapy; cs;s goepiyfis tpthpf;ft[k;.

gw;fhy;tha; rpfpr]ir :

gy; gpLq;Fjiy; jtph]j;J ,aw;ifg] gy;iy; jf;fitj;Jf; bfhs;s ,r]rpfpr]ir cjt[k].

rpfpr]ir] goepiyfis; :

1. gy;ypd; nky; rpwpa Jisg] bghwpahy; Jisaplg]g]L/ gw;TH; bghUl]fs; midj;Jk; ePf;fg]gLk;. ,r]rpfpr]ir X fjph] epHw]gl;jpy; fz;fhzpf;fg]gLk].
2. FHp ed;F Rj;jpfhpf;fg]g]L/ Ez;qapbujphp kUe;Js;s girahy; epug]gg]g]L jw;fhypfkhnkny \g]gLk;. xU rpy eh]fSf;F gpd; epug]gpa bghUis ePf;fpf; FHpf;fhy;thapy; fpUkpfsw;w epiya[s;jh vd nrhjpf;fg]gLk].
3. neha; bjhw;W ,y;iybadpy; gw;fhy;tha; kug]ghy; gprpDld; Jj;jehf Mf;!L/ gp!;kj; Mf;!L nrh]e]j fyitf; bfhz;L epug]gg;g]L/ FHptpd; nky;tha;g] gFjp Xh] rpbkz;l;odhy; rPy; bra;ag]gLk;.

5. vYk;g[Kwptpd; gy;ntW tiffis tpthp.

1. **gr]irf; bfhk]g[Kwpt[** :FHe;ijfSf;F Vw;gLk;. KGikaw;w Kwpt[. fh]blf;rpdp; xU gFjp xl]o fhzg]gLk].
2. **loa Kwpt[** :;uj;jf; fl]L btspapy; fhzg]gLtjpy;iy.
3. **jpwe;j Kwpt[** :;uj;jf;fl;L btspapy; fhzg]gLk;. ,J xU kpf nkhrkhd fhak;.
4. **neha;epiy Kwpt[** : bkype;j vYk;g[fs; fhzg]gLk]. iQgh] ghuhijuha;orj;jhy; Vw;gLfpwJ.
5. **mGj;j Kwpt[** : bjh]h]r]rpa hf/ ePz;l fhyj;jpw;F/ vYk;gpd; Xhplj;jpy; Vw;gLk; mGj;jk; ,k;Kwptpw;F fhuzkhfpwJ.
6. **gpwg]g[Kwpt[** : FHe;ij gpwf;Fk; jUthapy;/ FHe;ijapd; clypy; Vw;gLk; Kwpt[.

6. \]L typfsy; gy;ntW tiffis tpsf;Ff.

1. **bjh;W nehapdhy; cz;lhfK; \]Ltyp** : !;blig@nyhfhf;fy;!;l;bug]nlhfhf;fy;/bg hpak;ik/ rpgpy;!;/fpdp g[Gf;fs; ng hd;wtw;why; Vw;gLfpwJ. \;Lfs; rpijtila[k;.
2. **Unkl]of; \]Ltyp** : ,J ek; clypy; cs;s vy;yh ;izg]g[j; jpRf;fisa[k; Fwpg]ghf vYk;g[kw;Wk; jirfspd; cWg]g[bjhFg]g[fis mjpfkhf jhf;FfpwJ. irndhtpay; ciwapd; tPf;fnk Kf;fpa mwpFwpahFk;.
3. **M!;obah Mh]j;hpl]o!** : tajhd \]Lfs; cs;s FUj;bjYk;g[fs; ghjpf;fg]gLtjhy; Vw;gLfpwJ. ,J \]Lg]gFjpapy;/ tPf;fkpd;wp/ \]Lfs; rpijtpdhy; Vw;gLk; \]L typahFk;.
4. **tsh]rpij khw;wf; FiwghL \]Ltyp** : ,J gpwg]gpypUe;nj fhzg]gLk; gpa{iud; tsh]rpij khw;wf; Fiwghodhy; njhd;WfpwJ. ,jw;Fr] rhjhuzkhf **bfs]** vd;W bgah].
nrhoak; a{nul} gofq;fs;/ \;Lfs; FUj;bjYk;g[gFjpapYk;/ mijr] Rw;wpa[s;s jpRf;fspYk; gotjhy; ,k;\]L typ njhd;WfpwJ. \]Lfs; tPf;fk;/ \]Lg]gFjp rpte;J nghjy; ,jd; mwpFwpfs; MFk;.

7. ,uj;jk; ciwjy; goepiyfis tpthp.

,uj;jk; ciwjy; : gpsh!;khtpy; cs;s **ciwjy; fhuzpfs;** brayw;w epiyapy;
 ,uj;jj;jpy; mike;jpUf;Fk;. ,uj;jf; FHy; ghjppg]gile;jhy; ,it ciwjiy
 cz;lhf;fj; J}z;o tpg]gLfpd;wd. ,j;J}z;ly; \d;W epiyfsy; Vw;gLk;.

Kjy; epiy;Jnuhk;nglifnd!; njhd;Wjy; - ghjppg]g[my;yJ fhakile;j jpRf;fs; ypg]ngh g[nuhl]Od;fisa[k;gh!;nghypg]gpLfisa[k; btspnaw;Wfpd;wd. ,tw;wpw;F jpRf;fhuzpfs; vd;W bgah]. ,f;fhuzpfs; Jnuhk;nglifnd!; vDk; bghUisj; njhw;Wtpf;fpd;wd.

,uz;lhk; epiy;Jnuhk;gpd; njhd;Wjy; - g[nuhJnuhk;gpnd!; vDk; vd;irk; g[nuhJnuhk;gpnd] Jnuhk;gpd; Mf khw;WfpwJ. g[nuhJnuhk;gpd; jahhpg]gpy; itl]lkpd; K cjt]fpwJ.

\d;whk; epiy; @iggphpd; njhd;Wjy; - Jnuhk;gpd; gpsh!;khtpy; fiue;Js;s @iggphpdnd\$; vDk; g[nuhl]Oid fiuah g[nuhl]Odhfpa @iggphpd; vDk; bghUshf khw;Wk;. @iggphpd;/ eh] mikg]g[ilaJ. ,e;eh]fs; ciwjy; Xh] tiyg]gpd;dy; mikg]g[njhw;Wtpf;fpd;wd. ,g]gpd;dypy; ,uj;jr; bry;fs;/ gpns;by]Lfs; ng hd;wit rpf;fpapUf;Fk;.

8. epidthw;wy; vd;why;; vd;d> mjd; tiffis tpthp .

epidthw;wy; : epidthw;wy; vd;gJ \isapd; xU Fwpg]gpl]l braiyf; Fwfp;fpwJ.
 ,J rpy epkplq;fsy; ,Ue;J gy Mz;Lfs; tiu ePof;Fk] jpw dhFk].

epidthw;wypd; tiffs; :

1. **czh]t]fspd; epidthw;wy;** : czh]t] J}z;ly;fis Vw;W/ mDgtpj;Jg] gpd;dh] \isapy; epidthf epWj;jp if;fg]gLfpwJ. ,Jnt epidthw;wypd; bjhlf;fr; brayhFk;.
2. **Kjy;epiy epidthw;wy;** : ,J cz;ikapy; ele;jit/ brhw;fs;/ vz;fs;/ vGj;Jf;fis epidtpy; itj;jpUj;jy; MFk;. cldoahf fpilf;Fk;go mike;Js;S. ePz;l rpe;jid njitapy;iy.

3. ,uz;lhk; epiy epidthw;wy; : rpy bra;jpfs; epue;jukhf ek; \isapy; gjpthfpa[s;sd. ,r]bra;jpfs; rpy kzp neuq;fs; my;yJ rpy ehl;fs; my;yJ rpy tUlq;fSf;F gpwnfh njitg]gLgit. jw;F ePz;l fhy epidthw;wy; my;yJ epue;ju epidthw;wy; vd;W bgah].

9. \isj; jz;Ltl jputk; vd;why; vd;d> mjd; gzpfs vGJf.

\isj; jz;Ltl jputk; : \isapd; btz;l]hpfps;fs; kw;Wk; jz;Ltl ikaf;
 FHpapDs;Sk; epuk;gpa[s;s epwkw;w/ bjspthd jputk] \isj; jz;Ltlj; jputk]
 MFk]. \isapd; btz;l]hpfps;fspy; cs;s bfhuha;L gpsf;!;pd; Rug]g[r; bry;fs;
 \isj; jz;Ltlj; jputj;ijr] Ruf;fpd;wd.

\isj; jz;Ltlj; jputj;jpd; gzpfs; :

1. jiy mira[k; bghGJ my;yJ kj;jpa euk]g[kz;lyk] mjph]r]rpf;Fs;shFk; nghJ mjph]t[jhq;fpahfr] bray;gLfpwJ.
2. kj;jpa euk;g[kz;lyj;jpd; ghJfhg]g[ciwahft[k;/ \isapd; kpjit ,ay;iga[k; rhpbra;fpwJ.
3. \is kw;Wk; jz;Ltlj;jpw;F njitahd Qhh]nkhd;fisa[k;/ czf]g;bghUl]fisa[k; mJ nrkjp;J itf;fpwJ.
4. kj;jpa euk;g[kz;lyj;jpd; cs;Sk; g[wKk; mike;J ,af;f mGj;jj;ijr] rhp bra;fpwJ.

10. J}f;fk; xU jd;dpiy kwe;j epiy - cd; fUj;ij jUf.

cwf;fk; : xt;bthU ehs; ,ut[k; xU kdpjd; epidtpHe;j epiyia milfpwhd;
 mjypUe;J kPsj; jFe;j g[wj;J]z;ly;fs; njitg]gLfpd;wd. ,r]braiy ehk; cwf;fk;
 vd;fpnwhk;.

cwf;fj;jpd; tiffs; : 1. bkJthd miy cwf;fk; :

- \isapy; miyfs; kpf bkJthff; fhzg]gLfpd;wd.
- ,e;j cwf;fj;jpd; nghJ mr;rL;Lk; fdt[fSk; njhd;Wfpd;wd.
- ,e;j cwf;fj;jpd; nghJ ek; clypd; ,uj;j mGj;jk;/ Rthr;jjpd; tPjk; kw;Wk; mog]gil tsh]rpij khw;wq;fs; Fiwe;J ek; clyf;F ed;ik gaf;fpwJ.

2. REM cwf;fk; :

- ,J Jhpjf; fz; mirt[fSld; Toa cwf;fk;.
- ,utj; J}f;fj;jpd;; bghGJ Xt;bthU 90 epkpl ,ilbtspapy;/ 5 Kjy; 30 epkplq;fs; tiu ,t;t[wf;fk; ePof;Fk;.
- ,f;fdt[wf;fj;jpy; ,jaj;Jog]gpd; tPjk; kw;Wk; Rthr ,af;fq;fs; rPuw;W,aq;Ffpd;wd.

cwf;fj;jpd; clw;braypay; tpist[fs; :

- 1.jkdpapd; ,uj;j mGj;jk; FiwfpwJ.
2. ehoj;Jog]gpd; tPjk; FiwfpwJ.
3. njhy; ,uj;jf; FHy;fs; tphptilfpd;wd.
4. clwjirfs; jsh]r]rp mila[k;.

4. njhydp; gzpfs; ahit>

1. Ez;qaphpfshy; Vw;gLk; bjhw;W neha;fisj; jLf;Fk; muzhfj; njhy; mike;Js;sJ.
2. clypypUe;J ePh] Mtpahjiy; jLf;fpwJ.
- 3.ntjpag] bghUl;fs; btg]gk;/xspjh;fk;/CLfyg]g[Mfpatw;wpypUe;J cliyg] ghJfhf;fpwJ.
- 4.clypypUe;J btg]gk; btspnaWjiyf; Fiwj;Jf; fl]Lg]gLj;JfpwJ.
- 5.rpwpjst[fHpt[ePf;fk; kw;Wk; cl]fpufp;jy; eilbgwr] bra;fpwJ.
- 6.it]lkpd; D cw;gj;jpapy; cjt]fpwJ.
- 7.njhy; Xh] czh]r]rp gug]ghf mike;Js;sJ.
- 8.njhydp; nky; mike;Js;s bfuhl]Od; njhYf;F Xh] Fwpg]gpl]l tHtHg]g];

jd;ikia mspj;Js;sJ. .j;jd;ikahy; cly; mirt[fs; vspjhfa[s;sd.

2. Ez;qaphpay;

1.itu!pd; mikg]gpil tpthpf;ft[k;.

- tpyq;F kw;Wk; jhtu itu!;fspy; epa{f;spf; mkpyq;fshy; Md ikag] gFjpa[k; mijr] Rw;wp nfg]rpl] ciwg]gFjpa[k; fhzg]gLk;.
- rpy tpyq;F itu!;fspy; epa{f;spnah nfg]rpl] mikg]g[id; /ypg]ngh g[ujq;fshy; MdxU nky; ciwa[k; cz;L.
- itu!;fs; Fwpg]gpl] rPuikg]g[fi bfhz;L tpsq;Ffpd;wd.

1. cUz;il tot itu!;fs; :

- rkgf;fg] gFjpfisf; bfhz;l InrhQPI]uy; totq;fs;.
- v.fh. mondhu itu!;fs;/ SV 15 / nghypnah itu!; kw;Wk; ePyehf;F itu!;fs;.
- ePyehf;F itu!;fspd; nkW;g[wk; Kf;nfhz myFfshy; Md ry;yil nghd;w mikg]g[fhzg]gLk;.

2. rpyz;l] tot itu!;fs; :

- RUs; rPuikg]g[f; bfhz;lit.
- v.fh. g[ifapiy bkhrf; itu!;/ mk;ik bhfg]g[s itu!;/g[]]hsk;ik itu!;/ nugpl; itu!;/ ,d;g[Sad;rh itu!;.
- nugpl; itu!pd; nkYiwapd; kog]g[Xuq;fs; fpisf;nfh g[ujq;fshy; MdJ.

3. rpf;fyhd/ rPuw;w mikg]g[itu!;fs; :

- ,it khWg]l] g[ujq;fisa[k;/ ypg]ngh g[ujq;fisa[k; bfhz;oUf;Fk;.
- v.fh. ghf;!; itu!;fs;/ T- ghf;Ohpnah@ng\$;fs;.

2. itu!;fspd; kugpay; gw;wp vGJf.

- itu!;fspd; \$Pndhk; DNA my;yJ RNA MFk;.
- xU ithpadpd; epa{f;spf; mkpyg] gFjp ,d;g[Sad;rh itu!;fspy; 1 % k;/ rpy ng\$;fspy; 50% k; fhzg]gLk;.
- ghuh itu!;fspy; \$Pd;fs; 3 Kjy; 4 tiua[k;/ bQh]gp!; kw;Wk; mk;ik neha; itu!;fspy; \$Pd;fs; E}w;Wf; fzf;fpYk; ,Uf;Fk;.
- epa{f;spf; mkpyq;fs; xw;iwahf fhzg]gLk; itu!;fs; nQg]sha;L itu!;fs; vdg]gLk;.
- og]sha;L itu!;fspy; \$Pndhk;fs; ,ul]il rq;fpypfshsf; fhzg]gLk; (bul]nuh itu!;fs;).
- tpyq;F itu!;fspd; DNA bgUk;ghYk; ePs\yf;TWfshFk;. RNA ,ul;il my;yJ xw;iw rq;fpy \yf;Twhfnth fhzg]gLk;.
- jhtu itu!;fspy; RNA t]l] totpy; fhzg]gLk;.

3. tpyq;F itu!;fspd; tsh]g]g[Kiwfs; gw;wp tpthp.

itu!;fspd; tsh]g]g[Kiw \d;W tifg]gLk;. mitfs;/

1. Kj;ik tsh]g]g[:

- Kj;ik tsh]g]g[f;F ntz;oa bry;fs; vyp/ Mk;!;lh] nfhHp kw;Wk; Fuq;F my;yJ kdpjd; Mfpatw;wpd; ,ay;g]; jpRf;fspy; ,Ue;J bgwg]gLfpd;wd.
- ,j;jpRf;fspd; bry;fs; tsh]f;fg]gLk; nghJ tsh]g]g[r] rhjd;jpd; nky; xl]of; fhzg]gLk; bry;fspd; xU jdp mLf;F Kj;ik tsh]g]g[vdg]gLk;.

2. og]sha;L bry;tif tsh]g]g[:

- og]sha;L bry;tiffs; fU\y;jpy; bgwg]g;l Fwpg]gp;l jpRf;fshd Eiuapuy;/rpWePufk;/ Mfpatw;wpd; bry; tsh]g]g[fspy; ,Ue;J bgwg]gLfpd;wd.
- kdpj jLg]g[rp kUe;Jfspd; cw;g;jpf;F nkW;go og]sha;L bry;fs; jhd; tpUe;njhk;gpr] bry;fshfj; njh]e;bjLf;fg]gLfpd;wd.

3. bjhlh] tHpr] bry;fs; tsh]g]g[:

- bjhlh] tHpr] bry;fs; vz;zpYlq;fh Kiwapy; ,ul]og]gilaf; Toa jpwd; btw;wit.
- ,r]bry;fs;/ xU bry;ypd; tifapd; jpOh] khw;wj;jhnyh my;yJ g[w;Wneha;r] bry;fspd; tsh]g]g[fspy; ,Ue;njh bgUk;ghYk; bgwg]gLk;.
- tsh]f;f rpukhd my;yJ tsh]f;fnt ,ayhj rpy itu!;fs; nkW;go bjhlh]tHp bry; tiffspy; tsh]f;fg]gLfpd;wd.

4. kdpjhy; fhzg]gLk; itu!; neha;fisg] gw;wp rpW Fwpg]g[jUf.

1. g[w;Wneha]k; itu!;fSk; :

- g[w;Wneha njhw;Wtpf;Fk; itu!;fs; Md;f;nfh\$Pdpf; itu!;fs; vd miHf;fg]gLk;.
- o.vd;.V Md;nfh\$Pdpf; itu!;fs; - mondh itu!;fs;/ ghypnahkh itu!;fs;/ SV 40/ vg]!;od; gh] itu!;.
- Mh].vd;.V. Md;nfh\$Pdpf; itu!; - nuht!; rhh]f;nfhkh itu!;.

2. nugp!; ituRk; nugp!; neha]k; :

- fhuzp -nugp!; itu!; . (nug]nlh FLk;gk;)
- gut[k; Kiw - nugp!; itu!; bjhw;wpa eha; /g{id/ btsthy; nghd;w tpyq;Ffs; kdpjid fog]gd; \yk; cz;lhfwpJ.
- mwpFwpfs - fLk; jiytyp/ mjpf fha;r]ry;/ khWk; gjw;w epiy/kdq;Fiye;j epiy/ bjhz;il kw;Wk; khh]g]g[gF]jpfspy; jir eLf;fq;fs; kw;Wk; ePh] btWg]g[.
- jLg]g[Kiw - 1980 y; fz;Lgpof;fg]g]l g]jpa nugp!; jLg]g[rp jLg]ghw;wiy J}z;Lk;.

3. mk;ik itu!;fs; :

- fhuzp - nthpnahyh itu!;.
- gut[k; Kiw - ePh]j;Jsp my;yJ neha; bjhw;wpa cgnahfg] bghUs;fs; \yk;.
- jLg]g[Kiw - thf;rpdpah itu!; \yk; jahhpf;fg]gLk; jLg]g[rp / neha; jLg]ghw;wiy / bry;tHp kw;Wk; jputtHp Mfpa ,uz;od; \yk; njhw;Wtpf;fpd;wJ.

4. bQg]g]jill]o!; - gp itu!; (fy;yPuy; mHw;rp) :

- fhuzp - bQg]g]jill]o!; - gp itu!; (HBV). ,J kQ;rs; fhkhiy nehiaa[k; kw;Wk; fy;yPuy; fh]j]rpdhkh g[w;Wnehiaa[k; njhw;Wtpf;fpd;wJ. ,J xU nkYiwa[id; Toa ,ul]jlr] rq;fpyp o.vd;.V bfhz;l itu!;.

- jLg]g[Kiw - HBV jLg]g{rp/ xU Rj;jpfhpj;j vr;.gp.tp. Md;lo\$d; (Ag)MFk;. ,J Kw;wpYk; ey; epiyapYs;s itu!; HBV Ag Rkg]gpfspd; ,uj;j;jpy; ,Ue;J jahhpf;fg]gLfpwJ.

5. ghf;Ohpa Clfq;fs; jahhpg]gjpy; cs;s go epiyfs; ahit>

1. ePhpy;yhj Clfj;jpd; xt;bthU bghUSk] xU Fwpg]gpl] fd mst[ePhpy; fiuf;fg]gl ntz;Lk;.
2. Clfj;jpd; iQl]u\$d; madp mlh]j;jp (pH) fzf;fp]g]glntz;Lk].
3. mfh]/ Clfj;jpy; ,lg]gl;L mJ fiutjw;fhf (jpl Clfk;) Nnlw;wg]gl;Lf; bfhjpf;f itf;fg]g]gly; ntz;Lk].
4. ClfkhdJ FLitfspy; my;yJ FHha;fspy; nrhpf;fg]gl ntz;Lk].
5. ClfkhdJ Ml]nlh fpist; bfhz;L fpUkp ePf;fk; bra;ag]gly; ntzLk;.
6. ghf;Ohpahf;fspd; tsh]r]rp Cl]lr]rj;Jf;fSld; / ,aw;g[gz;g[fs]hd btg]gepiy/ tha[epiy/ pH / xspg]y;/ kw;Wk; ePuGj;jk] Mfpaita[k] njitg]gLfpd;wd.

6. ghf;Ohpa kugpay; gw;wp tpsf;Ff.

ghf;Ohpa kugpay; :

- ghf;Ohpa bry;fs; xU xw;iw o.vd;.V (DNA) rq;fpyiaf; bfhz;Ls;sd.
- ghf;Ohpa \$Pd;fs;/ ,ul]oj;jy;/ gz;g[fi]s btspg]gLj;Jjy;/ jpOh]khw;wk] kw;Wk; \$Pd; nrh]f;f Mfpa gz;g[fi]s bfhz;oUf;fpd;wd.
- ghf;Ohpahf;fspy; \$Pd; kWnrh]f;fapd; \d;W \$Pd; khw;w epfH;r]rpf; 1. ,izt[2. ouhd;!;lf;rd; 3. cUkhw;wk].

,izt[:

- ghf;Ohpa ,izt[py; xU ghf;Ohpa bry;ypd; rpy o.vd;.V. gFjpf; mjDld; ,izt[bfhz;Ls;s kw;bwhU bry;ypDs; khw;wg]gLfpd;wJ.
- \$Pd; khw;wj;jpw;Fg] gpd; ,izt[nrho ghf;Ohpa bry;fs; gphpfpd;wd.
- ,e;j ,izt[py; tHq;fp ghf;Ohpa Fnuhnkhrhkpd; bgUk;gFjp my;yJ KG FnuhnkhrhKk; khw;wg]glf;TLk;.

cUkhw;wk; :

- ghf;Ohpa cUkhw;wk; vd;gJ kug]j; jfty; bfhz;l bry;yikg]gpHe;j my;yJ bry;yikg]gl ePf;fg]gl] ghf;Ohpahtpd; DNA f;fs; xU bry;tifapypUe;J kw;bwhU bry; tifapDs; khw;wg]gLk; epfH;r]rpahFk].

ouhd;!;lf;rd; ; :

- ouhd;!;lf;rd; vd;gJ ngf;Ohpnah@ng\$; itu!;fs; Vw;W Ch]jpfshf bray;gl]L xU tHq;fp ghf;Ohpaj;jpy; cs;s o.vd;.V gFjppid kw;bwhU Vw;g[ghf;Ohhpaj;jpDs; khw;Wfpd;wd.
- xU ghf;Ohpa bry;ypd; midj;J o.vd;.V gFjpfSk; @ng\$; \yk; ouhd;!;lf;rd; mile;jhy; m@J bghJ tif ouhd;!;lf;rd; vdg]gLk;. rpy \$Pd;fs; kl;Lk; ouhd;!;lf;rd; mile;jhy; m@J rpwg]gl tif ouhd;!;lf;rd; vdg]gLk;.

7. kdpjh]fspy; fhzg]gLk; ghf;Ohpa neha;fs; gw;wp tpthp.

1. rhy;khdy;yh :

- rhy;khdy;yh vdg]gLk; bjhw;W fpUkp/ ngrpy;yp tifiar] rhh]e;j ghf;Ohpah MFk].
- ,J kdpjdpy; ilgha;L my;yJ ghuhilgha;L/ nfl;!;nuh vd;oiul]o!; kw;Wk; brg]orPkpah Mfpa \d;W neha;fis njhw;Wtpf;fpwJ.

ilgha;L:

fhuzp - rhy;khdy;yh ilgp

mwpFwpfs; - bjhlh] fha;r]ry;/ Fly; uzkhjy;/ tapw;Wg] g[z; kw;Wk; kz;zPuy; tPf;fk].

nf!;nuh vd;l;oiul]o!;:

fhuzp - rhy;khdy;yh fhynurpa!;

mwpFwpfs; - cah] fha;r]ry; jpUk;gj; jpUk;g Vw;gLjy;/cly; FspH]/ grpapd;ik/ cly; vil
Fiwjy; . ,uj;jj;ppy; ,Ue;J ghf;Ohpah cly; cWg]g[fijs jhf;Fk; nghJ bkdpd;i\$]o!;/
epnkhdpah/ beg]iul]o!;/ M!;onah ikiyl;o!; Mfpait njhd;Wk;.

2. fhyuh:

- fhuzp - tpg]hpnah fhynu
- gut[k; Kiw - ghf;Ohpaj;jhy; mRj;jg]gLj;jg]g]l ePh] kw;Wk; czt[fs; \yk;.
- mwpFwpfs; - the;jp/ fQ;rpj; jz;zPh] nghd;w fLikahd tapw;Wg]nghf;F/ fLikahd
ePhpHg]g]/ jhJ cg]g[fs; ,Hg]g]/ ,uj;jj;jpd; mkpy;jd;ik mjpfhpg]g[kw;Wk; ,uj;jj;jpd;
mlh]j;jp mjpfhpg]g].

3. gpnsf; :

- fhuzp - vh]rpdpah bg!;o!;
- tiffs; - g[nghdpf; gpnsf; kw;Wk; epnkhdpf; gpnsf;.

g[nghdpf; gpnsf; :

- epzePh]r] Rug]gpfs; uzkhfp tPf;fk; milfpd;wd.
- cly; FspH]jy;/ the;jpa]zh]t[/ the;jpbaLj;jy; kw;Wk; bghJthd cly; gytPdk;
Mfpait ,jd; mwpFwpfshFk;. rpfpr]irapy;iybadpy; 58 % ,wg]g[Vw;gLk].

epnkhdpf; gpnsf; :

- epnkhdpahf; fha;r;riy cz;lhf;Fk;.
- ,uj;jj; jptiyfs; fye;j vr]rpy; btspg]gLk].
- rpfpr]irapy;yh epiyapy; 100% ,wg]gpidj; njhw;Wtpf;ff; TLk].

4. ghy;tpid neha;fs; :

(m). rpgpyp!; :

- fhuzp - ohpnghdpkh ghyplk; rpgpyp!;
- gut[k; Kiw 1. btdPhpay; rpgpyp!; - kdpjdp; neuoahf ghYwt[bfhs;tjd; \yk].
2. jha; - nra; tHp rpgpyp!; - jha; nra; ,izg]g[j;jpR gpshrd;lh \yk].

btdPhpay; rpgpyp!; :

- ,e;neha; Kjd;ik epiy/ ,uz;lhk; epiy kw;Wk; \d;whk; epiy vd \d;W fl;lq;fshf
gut[fpd;wd. \d;whk; epiyapy; ,jd; mwpFwpfs kpf[k; fLikahf ,Uf;Fk].
- fz;ghh]it ,Hj;jy;/ fhJ nfshik/ \isr]nrjk;/ J}f;fkpd;ik/ jiytyp kw;Wk; kUI]rp/ jz;Ltlr]nrjk;/cly;
mta khw;wk; nghd;wit \d;whk; epiy mwpFwpfshFK].

(M). bfhdhhpah :

- fhuzp - ep!;nrhpah bfhdhhpah
- jhf;Fkplk; - Mz;fspy; - rpWePh]g] g[wtHp cWg]g[. bgz;fspy; - brh]tpf;!; gFjp.
- mwpFwpfs; - Mz;fspy; / rpWePh]g] ngfh;fpd; nghJ typa[k; /kQ;rs; epwj;jpy;
rpWePh]g] g[wtHpapy; jputk; btspg]gLjYk; njhd;Wk]. bgz;fspy;/ rpWePh] ngfh;fpd;
nghJ typa[k;/ ,dg]g[iHapy; jputk; btspg]gLjYk; njhd;Wk;.
- ,ju mwpFwpfs; - \$Puk;/ motapw;W typ/ \l]Ltyp kw;Wk; bkdpd;i\$]o!; .

8. Ez;qaphp neha[z;lhf;fpfspd; jftikg]g[fiis vGJf.

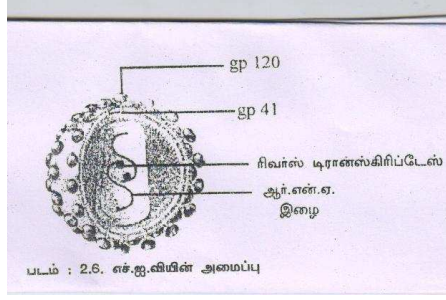
1. neha;f;fpUkpfs; bjhw;Wtjw;F ntw;Waphpfspd; btspg]g[w cWg]g[fs hd njhy;/ fz; ,ilbtsp my;yJ cl]g[wg] gFjpfshd Rthr/ tapw;W / Fly;g[w my;yJ ,dg]bgUf;f ghijfsy; mike;Js;s nfhiHg]glyk; gFjpfisj; njh]e;bjLj;J mtw;wpd; xl]oj; bjhw;Wfpd;w gz;ig bfhz;Ls;sd.
2. neha;fpUkpfs;/ cly; my;yJ jpR nkW;g[wg] glyg] gFjpf; lyk; cs; EiHe;J cl]g[wj; jpRf;fisir] brd;wilfpd;wd.
3. rpy Ez;qaphp bjhw;Wjypy;/ fpUkpaHdJ clypd; ve;j gFjpapy; EiHe;jnjh mnj gFjpapy; epiy bfhz;L fhzg]gLk;.
4. rpy Ez;qaphpf; fpUkpfs; gy ntW jpRf;fs; my;yJ cWg]g[fs py; brd;W gutpf;fplf;fpd;wd. ,t;tif bjhw;wy; Kiw bghJthd bjhw;Wfs; vdg]gLk;.
5. rpytif Ez;qaph]f; fpUkpfs; tpUe;njkh;gpr] bry;fspDs; tsh]r]rpaitjd; lyk; tpUe;njkh]gpapd; ,ay;g[cly; braypay; epfH;r;rpfSf;F fLk; ghjpg;gpId Vw;gLj;Jfpd;wd.
6. rpy Ez;qaphpfs; bry;fSf;F btspna tsh]r]rpaile;J/ rpy er]Rg] bghUs;fisir] Rug]gpjd; lyk; cly; jpRf;fSf;F nrjj;ij tpistpf;fpd;wd.

9. xU rpwe;j ntjpr] rpfpr]ir kUe;jpd; gz;g[fiis vGJf.

1. neha; cz;lhf;Fk; fpUkpia tpUe;njkh;gpj; jpRf;fSf;F vt;tpj ghjpg]g[kpd;wp mJ jLf;fpd;wJ.
2. tpUe;njkh;gpj; jpRf;fs; kw;Wk; bry;fspDs; g[Fe;J mq;Fs;s neha;f; fpUkpfis vjph]bfhs;fpd;wJ. ghJfhg]ghd mst[fs py;/ mk;kUe;J bray;gLfpd;wJ.
3. tpUe;njkh;gpapd; ,aw;if neha; jLg]ghw;wy; tHpKiwfshd bry; tpGq;fy;/ my;yJ Md;ogho cw;gj;jp Mfpa epfH;r]rpfSf;F vt;tpj ghjpg]g[k; ,d;wp kUe;jhdJ bray;gLfpd;wJ.
4. kUe;J neha; fpUkp Ez;qaphpfisf; bfhd;nwh my;yJ mtw;wpd; tsh]r]rpiaj; jLj;njh bray;g[hpfpd;wJ. ,jpy; tpUe;njkh;gp caphpf;Ff; fLikahd tpist[fs; VJk; ,d;wp my;yJ kpff; Fiwthd ghjpg]g[lid;/ kUe;J bray;g[hpfpd;wJ.

10. vr].I.tp (HIV) apd; cUt mikg]gpId tpthp.

- vr].I.tp. cUz;il totKila itu!; MFk; . ,jd; gUkd; Rkhh] 100 - 140 μ m MFk;.
- Mh].vd;.V kug]g] bghUisf; bfhz;l nfg]rpl] vdg]gLk; cs; ciwapida[k; mijr] NH;e;j xU g[uj ciwa[k; bfhz;L fhzg]gLk;.
- g[uj ciwapd; nky; gy fpisf;nfh g[uj Ez; r]l]f Kl]fs; nghd;w mikg]g[fs; xl]of; fhzg]gLk;.
- ,f;fpisf;nfhg]uj myfpd; btspg]g[wg] gFjpaHd gp120 mjd; gp 41 vdW cl]g[wg] gFjpa[lid; ,ize;Js;sJ.
- gp 41 Rkhh] E}w;Wf;Fk; nkW;g]l mkpndh mkpyq;fis bfhz;l xU mrjhuz ePs; g]jhkhFk;.
- gp 120 xU cUs; g[ilg]g[FkpH] nghd;w mikg]ghFk;.
- vyf]juhd; Ez;nzhf;fp Ma;tpy; vr].I.tp. apd; nkW;g[wk; 12 lq;nfhzg]gFjpfisa[k;/ 20 mWnfzhg] gFjpfisa[k; bfhz;l fhy;ge;J nghd;w mikg]g[ilaJ.
- vr].I.tp apd; nky; ciw ,jutif g[ujq;fisa[k;/ rpy vr].vy;.V. (HLA) Md;l]o\$d;fisa[k; bfhz;Ls;sJ.
- vr].I.tp apd; \$Pndhk; ,uz;L RUs; Mh].vd;.V. \yf;TWfshy; tise;j totpy; Mf;fg]g]oUf;Fk;. Mh].vd;.V. clid; hpth]!; ouhd;!;fphpg]n!; behjp fhzg]gLk;.



11. cyf Rfhjhu mikg]gpd; go va;l]!; (AIDS) nehapd; mwpFwfpfis vGJf.

1. cly; vilapy; 10% Fiwaf;TLk].
2. xU khjj;jpw;Fk; nkyhfj; bjhlh] ngjp fhzg]gLk].
3. bjhlh]e;J xU khjj;jpw;Fk; nkyhf fha;r]ry; ePof;Fk].
4. ,utpy; tpah]j;jYk/ ePoj;j ,UkYk] fhzg]gLk;.
5. re;jh]g]gj; bjhw;Wfshf vYk;g[Uf;fp/tha; bjhz;ilapy; nfz;oilahrp!; vdg]gLk] g{Q;irj; bjhw;Wf; fhzg]gLk;.
6. bQh]g]gp!; n\$H!;l]h] itu!pd; bjhw;Wjy; mt;tg]nghJ cz;lhfK;.
7. bkdpd;i\$]o!; kw;Wk; euk;g[r; nrjk;.
8. g]j;jpf; Th]ikia ,Hj;jYk;/ Qhgf kwjpa[k; Vw;gLk;.
9. fnghrp rhh]f;nfkhk vdg]gLk] g[w;Wneha; njhd;Wk;. ,jd; tpisthf khh]g[kw;Wk; tapw;W nky; gFjpfspy; njhypy; fU ePsg] g[z;fs; njhd;Wk;.

1. va;l]!; neha; jLg]g[/ fl]Lg]gLj;JjYk; gw;wpa Fwpg]g[vGJf.

fl]Lg;ghL :

1. uj;jk; kw;Wk; uj;jg] bghU]fis vr].l.tp. nrhjidf;Fl]gLj;Jjy;.
2. va;l]!; tpahjp vt;thW bjhw;Wk; vd;gjw;fhd tpHpg]g[zh]it kf;fspilna Vw;gLj;jp mjw;fhd g[zh]r]rp tpjpKiwfis tFj;jy;.
3. ghJfhg]ghd cly; cwt]fs; kw;Wk; elj;ijfs; gw;wpg] nghjpp;jy;.
4. gy;ntW bghJey ,af;fq;fs;/ Mrphpah]fs;/ muR rhuh epWtdq;fs;/ ,iz kUj;Jt ntiyah]l]fs; kw;Wk; ,ju Rfhjhu ,af;fq;fs; va;l]!; tpHpg]g[zh]t[epfH;r]rpfis elj;Jjy; kw;Wk; mtw;wpy; gq;F bfhs;Sjy;.
5. Md;l]oitu!; kUe;Jfshd AZT vd;w mrpnlhijkpod;/\$pnlht[od; kw;Wk; irf;nshtph] nghd;wtw;iw va;l]!; nehahspfSf;F vspjpy; fpilf;FkhW bra;jy;.

nkyhz;ik :

vr].l.tp. bjhw;wpid nkw;Twpa bghJ eltof;iffs; \yKk;/ re;jh]g]gj; bjhw;W neha;fs;

kw;Wk; g[w;Wneha Fzg]gLj;Jtjd; \yKk; Md;l]oitu!; kUe;Jfs; \yKk;/ neha;

vjph]g]ghw;wiyj; J}z;Lk; Kiwfs; \ykhft[k; kw;Wk; Mjut[rpfpr]irfs;/ Mnyhridfs

\yKk; nkyhz;ik bra;a ,aYk;.

3. neha;j;jil fhg]gpay;

1. ,ay;g[neha;j; jilfhg]ig gw;wp tpthp.

,ay;g[neha;j; jilfhg]g[:

- ,it neha;fspypUe;J ghJfhg]g[g] bgWtjw;fhf ,aw;ifahfnt xU caphpapy; mike;jpUf;Fk; jilfhg]g[MFk;.
- may; bghUl]fs; clypDs; EiHtijj; jilbra;tJ kw;Wk; mHpf;fg]gLtJ Mfpad ,ay;g[neha;j; jilfhg]gpdhy; bray;gLj;]g]gLfpd;wd.
- jilfhg]gpapy; fPH;f;fz;l ehd;F tifahd jilaikg]g]fs; cs;sd.

1.clyikg]g[r] rhh]e;j jilfs; :

- tpyq;Ffspd; njhy;/ Rthrkz;lyk;/ Fly; kw;Wk; ,dg]bgUf;ff; FHha;fis NH;e;jpUf;Fk; nfhiHg]glyk; neha; fpUkpfis rpf;fitf;fpd;wJ.
- ,f;FHha;fspd; cl]rt;tpy; mike;jpUf;Fk; Fw;wpiHfspd; bjhlh] mirtpdhy;/rpf;Fz;l fpUkpfis; btspnaw;wg]gLfpd;wd.

2.clw;bray; rhh]e;j jilf;fhuzpfs; :

- cly; btg]gk;/ fhu - mkpyj;jd;ik kw;Wk; clw;Rug]g]fs; Mfpad neha; cz;lhf;Fk; Ez;fpUkpfspd; tsh]r]rpiaj; jLf;fpd;wd.
- clypy; fha;r]ry; cz;lhtjd; lyk; neha;f;fpUkpfspd; tsh]r]rp kl]Lg]gLfpwJ.
- tapw;wpy; Ruf;Fk; iQl]nuhFnshhpf; mkpyj;jhy; Ez;qaphpfs; bfhy;yg]gLfpd;wd.
- fz;zPh] kw;Wk; ckpH;ePhpy; cs;s iynrhirk; vd;irk;/ ghf;Ohpaq;fspd; bry;Rtiur] brhpf;ff;ToaJ.
- ,uj;j bts;isaq nghd;w rpy bry;fs;/ itu!;fshy; jhf;fg]gLk; nghJ ,z;lh]@bguhd;fs; vDk; itu!; vjph]g]g]g] g]ujq;fs; Ruf;fg]gLfpd;wd. ,jdhy; itu!hy; jhf;fg]g]l] kdpjhp; itu!; jhf;fj;ij vjph]f;Fk; jpwd; nkYk; mjpfhpf;fpwJ.

3. bry; tpGq;Fjy; rhh]e;j jilfs; :

- ,uj;j bts;isaq;fs; (ypa{f;nfh irl]Lfs;) ,jpy; <Lg]Lfpd;wd.
- neha;f;fpUkp jhf;fj;jpd; nghJ ypa{f;nfhirl]Lfspd; mjpfhpy;J/ ghf;Ohpaq;fs;/ itu!;fs; kw;Wk; rpjtile;j bry;fs; Mfpaw;iw tpGq;Ffpd;wd.
- neha;f;fpUkp jhf;Ffpd;w cly;gFjpfspy; nkhndhir]L tif bts;isaq;fs; FGKfpd;wd. gpwF nkhndhir]Lfs; nkf;nuhng\$;fshf K]ph]tilfpd;wd.
- nkf;nuhng\$;fs; kw;Wk; epa{!}nuh@gpy;fs; @ngnfhir]Lfsp; Kf;fpakhdit.

4. tPf;fk; cz;lhtjhy; Vw;gLk; jil :

- bghJthf cly;jpRf;fs; neha;f;fpUkpfspdhy; jhf;fg]gLk; nghJ my;yJ fhak; Vw;gLk; nghJ mg]gFjp bre;epwkhfp tPf;fk; kw;Wk; typ cz;lhfwpJ.
- jpRf;fspy; fhzg]gLk; kh!;l] bry;fs; rpjilt]Wk; nghJ Qp!;likd;/ brul]nlhdpd; kw;Wk; g]nuh!;nlhfpshd;od; nghd;w bghUs;fs; btspnaw;wg]gLtjhy; jpRtPf;fk; Vw;gLk;.
- nkYk; ghjpf;fg]g]l] ,lq;fspy; @ngnfhir]Lfis; Ftpar] bra;J cs;tUk; neha;f;fpUkpfis; mHpf;fg]g]l] tHptFf;fpd;wJ.

2. bgw;Wf; bfhz;l jilfhg]gpd; rpwg]g]g] gz;g]fs; :

1. Fwpg]g]pL jd;ik: gyjug]g]l] may; \yf;TWfspd; ntw;Wikia mwpa[k; jpwd;.
2. gy;tifj; jd;ik: gy;ntW may; \yf;TWfis milahsk; fhqk; jpwd;.

3. **Ra kw;Wk; may; \yf;TWfis ntw;Wikg]gLj;Jjy; :** may; \yf;TWfs; ,dk; fhqjy;
bra;ag]gLfpwJ. mnj rkak;/ clypd; \yf;TWfSf;F vjpuhd eltof;iffs;
jtph]f;fg]gLfpd;wd.
4. **epidt[:** jilfhg]g[kzlyk; Kj;Kjyhf xU Fwpg]gpl]l may; fhuzpia
vjph]bfhs;Sk; bghGJ mjid mHpf;fpwJ. ,e;epfH;r]rpia jilfhg]g[kz;lyk; beLehl;fSf;F
epidtpy; itj;Jf; bfhs;fpwJ. ,uz;lhtJ Kiw/ mnj may;fhuzpia vjph]bfhs;Sk; nghJ nkYk;
jPtukhd jilfhg]g[eltof;ifia
nkwbfs;fpwJ.

3. bry;tHp neha;j; jilfhg]g[kw;Wk; Mz;ogho tHp neha;j; jilfhg]ig tpthp.

bry;tHp neha;j; jilfhg]g[:

- bry;tHp neha;j;jLg]igr; bray;gLj;JtJ bry; er]rhf;f tif T bry;fs; MFk;.
- ,it neha;f;fpUkpfshy; jhf;fg]g]l bry;fisf; Fwpg]ghf ,dq;fz;L mtw;iw gy;ntW Kiwfs;py; jhf;fp mHpf;fpd;wd.
- g[w;Wnehahy; ghjpf;fg]g]l bry;fis mHpg]gjw;Fk; ,j;jilfhg]g[tHptFf;fpwJ.

Mz;ogho tHp neha;j;ilfhg]g[my;yJ ,uj;j tHp neha;j;jilfhg]g[:

- Mz;ogho tHp neha;j;jilfhg]ig bray;gLj;JtJ B bry;fs; MFk;.
- B tif ypk;@nghir]Lfs; ,k;a[ndhFbshg]ypd;fis cw;gj;jp bra;fpd;wd.
- Mz;ogho \yf;TWfs; bry;rt;t]ld; ,ize;njh/ jdpj;njh fhzg]gLfpd;wd.

jdpj;J fhzg]gLk; Mz;oghofspd; gzpfs; :

1. ghf;Ohpaq;fs;/ itu!;fs; nghd;w Jfs; bghUl]fisj; jphpgilar] bra;fpd;wd.
2. @ngnfhir] bry;fshy; ,dq;fhz;gjw;Fk;/ bry; tpGq;Fjy; eilbgWtij vspjhf;Fk; tifapYk; Mz;oghofs; ghf;Ohpaq;fspd; btspg]g[wj;jpy; g{r]rhf mikfpd;wd. ,jw;F Xg]nrhdPfuzk; vd;W bgah].
3. ghf;Ohpaq;fspdhy; btspnaw;wg]gLk; er]Rg] bghUl;fisir] braypHf;fr] bra;fpd;wd.

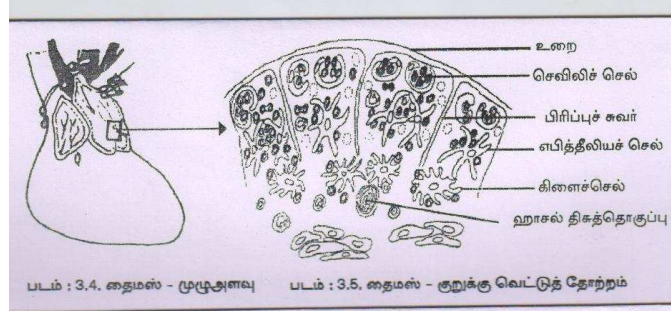
4.bghUe;jj;F neha;j; jilfhg]ig KLf;fp tpLjy; gw;wp Fwpg]g[tiuf.

1. Xt;btH U Mz;o\$Dk;/ nkf;nuh@ng\$;fs;/ B- ypk;@nghir]Lfs; kw;Wk; blz;oiul]L bry;fs; nghd;w Mz;o\$d; tHq;Fk; bry;fshy gjg]gLj;jg]gLfpd;wd.
2. ,r]bry;fspd; btspg]g[wj;jpy; gjg]gLj;jg]g]l Mz;o\$d;fs; njhw;Wtpf;fg]gLfpd;wd.
3. cjtp bra;a[k; T bry;fs; rpy fh]rpg]gLj;jg]g]l Mz;o\$d;fnshL Fwpg]ghf bjhlh]g[bfhz;L/ J}z;Ljy; epiyia milfpd;wd.
4. ,t;thW KLf;fp tpg]g]l cjtp bra;a[k; T bry;fs;/ B - ypk;@nghir]Lfs; kw;Wk; bry; er]rhf;f T bry;fis Fwpg]gpLk; jd;ika]ld; J}z;Lfpd;wd.
5. J}z;lg]g]l B bry;fs; kw;Wk; bry; er]rhf;f T bry;fs; vz;zpf;if bgUf;fkilfpd;wd.
6. ,t;thW vz;zpf;ifg] bgUf;fkile;j bry; Fnshd;fs;/ xnu milkg]g[bfhz;l Mz;o\$d;fis vjph]bfhz;L/ mtw;iw mHpf;fty;yit.

5. ijk!pd; mikg]g[kw;Wk; gzpfs tpthp.

mikg]g[:

1. ,jaj;jpd; nky; gFjpapy;/ rw;W gpd;djh f ,uz;L kly;fshf ijk!; mike;jpUf;Fk;.
2. ijk!pd; btsp ciw Muj;jpirapy; cs;nehf;fp tsh]e;J gphpg]g[Rth]fshf cs;sJ.
3. gphpg]g[r] Rth]fs; ijk!pd; cl]gFpiag] gy Jizg] gFjpfshf gphpf;fpd;wd.
4. Xt;btH U Jizg]gFjpf;Fk; fhh]blf;!; vDk; btspalF;Fk;/ bkLy;yh vDk; cs; mLf;Fk; cs;sd.
5. fhh]blf;!; gFjpapy;/bgUf;fkila[k; rpwpa ypk;@nghir]Lfs; fhzg]gLfpd;wd. bkLy;yh gFjpapy; Kjph]t[bgw;w ypk;@nghir]Lfs; fhzg]gLfpd;wd.
6. bkLy;yh gFjpapy; RUs; totkhf mike;j vg]gpj;jPyar] bry; T]l]q;fs; cs;sd. ,tw;wpw;F Qhry; jpRj; bjhFg]g[fs; vd;W bgah].

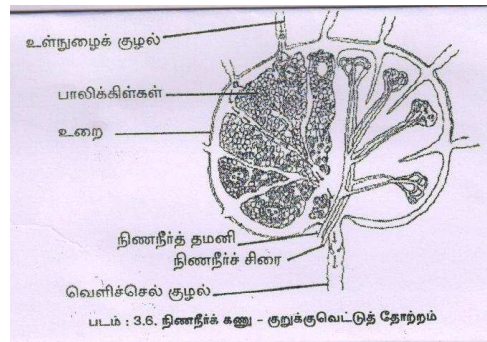


gzpfs; :

1. bry;tHp neha;j; jilfhg]gpw;fhf ijkpf; ypk;@nghir]Lfis cw;gj;jp bra;tnj ,jd; Kf;fpa gzpahFk;.
2. ijk!hy; cz;lhf;fg]gLk; ijKypd;/ ijnkhrrpd; kw;Wk; ijnkhghap]Jod; Mfpa fhuzpfs; tHpahf ypk;@nghir]Lfsf;F jilfhg]gj; jpwid mspf;fpwJ.

6. epzePh] Kor]Rfspd; mikg]g[kw;Wk; gzp gw;wp tpthp.

1. ,it epzePh]f; FHha;fsfy; t]l]totkhfnth/ K]il totkhfnth mike;Js;s rpwpa Kor]Rfs;.
2. g[w ciwapypUe;J ouhgf;Fyh vDk; jLg]g[r] Rth]fs;; cs;nehf;fp tsh]e;Js;sd.
3. fh]blf;!; vd;w g[w mLf;ifa[k;/ bkLy;yh vd;w cs; mLf;ifa[k; bfhz;Ls;sd.
4. fh]blf;!; gFjpapy; bgUf;fkila[k; ypk;@nghir]Lfs; ghypf;fps;fshf fhzg]gLfpd;wd.
5. bkLy;yhg] gFjpapy; ePz;L/ fpisfSid; Toa g]jilfshf ypk]@nghir]Lfs; fhzg]gLk].
6. fh]blf;!; gFjp ghypf;fps;fSf;Fk; / bkLy;yh gFjpg] g]ilfSf;Fk; ,ilg]l] mLf;F ghuh fh]blf;!; gFjpahFk;.
7. ghuh fh]blf;!; gFjpapy; Vuhs kh d T- ypk;@nghir]Lfs; fhzg]gLfpd;wd.



gzpfs; :

1. epzePiu tof]Lk; ikaq;fshf bray;gLfpd;wd.
2. epzePh] Kor]rpy; FGkpapUf;Fk] @ngnfhir]Lfs; Ez;qaphpfs; nghd;w may;bg hU]l]fis tpGq;Ffpd;wd.

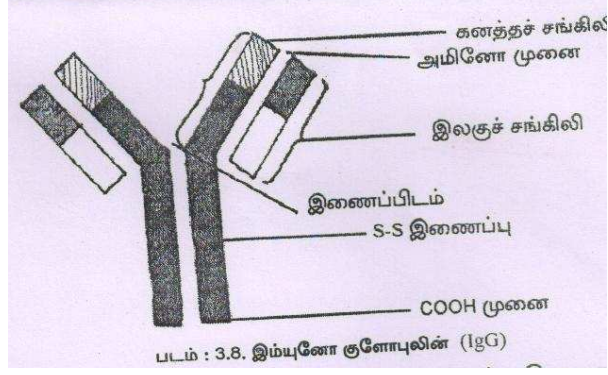
3. T kw;Wk; B bry;fspd; mjpfhpg]g[kw;Wk] cly;tHpg] gazk] Mfpatw;wpy; epzePh]
Kor]Rfspd; gq;F Kf;fpakhdJ.

7. nfhiHr] rt;t[rhh]e;j epzePhpaj; jpRf;fs;.

1. nfhiHr] rt;t[fs;py; mjpgfst[epzePhpar] bry;fs; fhzg]gLfpd;wd.
2. ,r]bry;fs; tiuaWf;fg]gl] jpl]Lfshfnth/ gutyhf mike;jpUf;Fk] epzePhpa @ghypf;fps;fshfnth ,Uf;Fk].
3. Flypd; nfhiHr]rt;tpy; mike;J fhzg]gLk] epzePhpaj; jpRf;fs; GALT vd;Wk]/ \r]Rf;FHha;fisr] rhh]e;j epzePhpaj; jpRf;fs; BALT vd;Wk] miHf;fg]gLfpd;wd.
4. nfhiHr]rt]tpy; epzePhpar] bry;fs;/ @ngnfhir]Lfs; kw;Wk] B kw;Wk; T ypk;@nghir]Lfs; fhzg]gLfpd;wd.
5. nfhiHr]rt]tpy; IgA vDk] Rug]g[,k;a[ndhFnshg]ypd;fs; cs;sd.
6. czt[tHp kw;Wk] Rthrk] tHpahf tUk] gy;ntW neha;fSf;bfjpuhd ghJfhg]igf; nfhiHr]rt;t[g] gFjpf; tHq;Ffpd;wd.

8. ,k]a[ndhFnshg]ypd; mikg]gpidd tpthp.

1. ,k]a[ndhFnshg]ypd;fs; (Igs) vd;git fpisf;nfh g[u]q;fshFk].
2. xt]nthU ,k]a[ndhFnshg]ypd; \yf;TWk]/ xU rpwpa ghypbgg]iL rq;fpyp kw;Wk] xU bghpa ghypbgg]iL rq;fpypahy; MdJ.
3. rpwpa ghypbgg]iL rq;fpypf;F ,nyrhd rq;fpyp vd;W bgah]. ,jd; \yf;TW vil Vwj;jhH 25/000 lhy]ld; MFk].
4. bghpa ghypbgg]iL rq;fpypf;F fdkhd rq;fpyp vd;W bgah]. ,jd; \yf;TW vil Vwf;Fiwa 50/000 lhy]ld; MFk;.
5. xt;btu L- rq;fypa[k]/ mnj gf;fr] rq;fypa[id; Xh] ,ul;il ry;@;igL gpiddg]ghy; ,izf;fg]gl]Ls;sJ.
6. ,uz;L H- rq;fypfSk; 1 Kjy; 5 tiuapyhd ,ul]ilr] ry;igL gpiddg]g[fshy; ,izf;fg]gl]Ls;sd.
7. H- rq;fyp mog]gilapy; IgG/ IgA/ IgM/ IgD kw;Wk; IgE vDk] 5 tifahd ,k]a[ndhFnshg]ypd;fs; cs;sd.
8. Xh] ,k]a[ndhFnshg]ypd; \yf;Twpy; fg]gh my;yJ yhk]lh L- rq;fyp mike;jpUf;Fk].
9. ,k]a[ndhFnshg]ypd; \yf;Tw;wpa; N my;yJ mkpndh Kidapd; mkpy thpiraikg]gpy; khWjy; Vw;gLk; gFjpf; Qh]!;gh]Lfs; my;yJ kpFjp khWgh]L gFjpf; vd;W bgah]. kpif khWgh]L gFjpf;/ ghunlhg]g[fs; Fwpg]gpL jd;ika[ilajhf ,Ug]gjw;F kpft[k; Jizg[h]pfpd;wd.
10. ,k]a[ndhFnshg]ypd; C Kid my;yJ COOH Kidapy; mkpndh mkpy thpir khwhky; epiyahd jd;ika[id; fhzg]gLfpwJ.



9. **fpuh@g]od; gy;ntW tiffis tpthp.**

1. **Ra khw;WWg]g[(MI]nlhfpuh@g]l]) :**

bhilahspapikpUe;J bgwg]g]l] jpR bhilahsp egUf;nf bghUj;j]g]gLfpwJ. xU kdpjdpd; bjhilg]g]FjpapypUe;J vLf;fg]g]l] njhy; gFj]pia mk;kdpjdpd; jPf;fha nkW;g]l] Kfg]g]Fjpf;F gpsh!;of; mWit rpfpr]ir \yk; khw;Wjy;.

2. **Xj;j kugpag] gz;g[bfhz;l khw;WWg]g[(Inrhfpuh@g]l]) :**

Xnu kugpa mikg]g]f; bfhz;l ,U egh]fspilna khw;wg]g]Lk; fpuh@g]l]. Fnshd;fs; my;yJ cUt]bkh;j ;,ul]ilah]fSf;fpilna cWg]g] khw;wk].

3. **Xnu ,d caphpfSf;fpilna khw;wg]g]Lk; cWg]g[(my;nyhfpuh@g]l]) :**

khWg]l] kugpa mikg]g]ilaJk;/ xnu rpw]wpdj;ijr] rhh]e;jth]fSf;fpilna khw;wg]g]Lk; fpuh@g]l] MFk]. xU kdpjdpd; ,Ue;J kw;bwhUtUf;F khw;wg]g]Lk; rpWePufk].

4. **ntw;wpd caphpfSf;f]ilna khw;wg]g]Lk; cWg]g[(brndhfpuh@g]l]) :**

ntWntW ,dj;ijr] nrh]e;j Kw;wpYk; khWg]l] kugpa ghuk]ghpaj;ijr] rhh]e;j cWg]g]pdh]fSf;fpilna khw;wg]g]Lk] cWg]g]. gd;wpapypUe;J kdpjDf;F my;yJ gg[d; kdpjDf;F khw;wg]g]Lk; cWg]g].

10. **cWg]g[khw;wj]jpd; kugpa mog]gil gw;wp Fwpg]g[tiuf.**

1. cWg]g[khw;wj;jpy; / cWg]g[khw;wk; bra;a ntz;oa egh]fspd; (bhilahsp kw;Wk; Vw;gth]) jpR bghUj;j Mz;o\$d;fs; xj;Jnghf ntz;oa[s;sJ.

2. jpRg]bghUj;j Mz;o\$d;fis eph]zapf;Fk; \$Pd;fs; KjD;ik jpRg]bghUj;j \$Pd; Tl]likg]g[vd;wwpag]g]Lfpd;wJ.

3. jpRg]bghUj;j Mz;o\$d;fis eph]zapf;Fk; \$Pd;fs; Rz;blypfspd; MwhtJ Fnuhkhnrhky; cs;sd.

4. kdpjdpd; ,tw;wpw;F ypa{f;nfhir] Mz;o\$d; Tl]likg]g[vd;W bgah].

5. HLA \$Pd;fspd; my;yPy;fs; cWg]g]f; bfhl]g]gth] kw;Wk; cWg]g[Vw;gth]fspd; jpRg]bghUj;j;jij eph]zapf;fpd;wd.

11. **xl]LWg]g[tpyf;fypd; mwpFwps; ahit>**

1. njhy; mhpq]g[
2. kz;ZPuypy; ePh]fl]Ljy; kw;Wk; tPf;fkiljy; (!:g]sPndhbkfhyp)
3. cly; bkype;J nghjy; (,khrpnard;)
4. tapw;Wg]nghf;F
5. fy;yPuy; tPf;fk] (bQg]ghl]nlhbkfhyp)
6. ,uj;j nrhif kw;Wk] bghJthd neha; vjph]g]g[]:jpwd; Fiwjy;
7. gpj;j ehsq;fs; gGjiljy;
8. gpyp+gpdpd; mjpfq]goahd cw;gj;jp.

12. khw;WWg]g[epuhfhpg]ig jLf;f nkW;bfhs;sg]gLk] eltof;iffs; ahit>

1. cWg]g[Vw;gthpd; ,uj;jj; bjhFjpia (A/ B/ O kw;Wk; Rh) Muha;jy;.
2. cWg]g[Vw;gthpd; ,uj;j rPuj;jpy; bry; er]rhf;f Mz;oghofs; cs;sdth vd;gijf; fz;Lgpoj;jy;.
3. cWg]g[]; jhdk] bra;gth] kw;Wk] cWg]g[] bgWk] egh] Mfpa ,Uthpd; ,uj;jr] bry;fisf; FWf;F xg]gPL bra;jy;.
4. irf;nsh!nghhpd; kw;Wk; !;Ouha;Lfs; nghd;w jilfhg]ig kl]Lg]gLj;Jk] kUe;Jfis khw;Wj;jpR Vw;gth]fSf;F mspj;jy;.
5. epzePhpaj; jpRf;fis KGikahff; fjphpaf;fj;jpw;F cl]gLj;Jjy;.

13. iQg]gh] brd;rpl]otpl]o kw;Wk; Rajilfhg]g[neha;fs; gw;wp tpthp.

1. iQg]gh] brd;rpl]otpl]o my;yJ xt;thik:

- rhjhuz Mz;o\$d;fSf;bfjpuhf/ jilfhg]g[kz;lyk; bghUj;jkw;wJk] tuk]g[kPwpaJkhd bray;fspy; <LgLk; nghJ xt]thik cz;lhfpuwJ.
- J}R/ g{Q;irfs;/ kfue;jj; Jfs;fs;/gy;ntW czt]g] bghUl]fs;/ bgd;rpypd; nghd;w kUe;Jfs; myh]\$d;fshf bray;gLk].
- Xt;thikapy; <LgLtJ bgUk]ghYk; IgEtif Mz;oghofSk;/ Qp!;likd;fSk] MFk]. Qp!plikd;fiser] Rug]gJ kh!;lj bry;fs; MFk;.
- rpyrkak] myh]\$d;fs;/ ghjpf;fg]g[] kdpjdp; tpiuthdJk; jPtpukhdJkhd tpidfisj; njhw;Wtpj;J ,wf;fr] bra;af;TLk]. ,t]tpidf;F mdh@igyhf;rp!; vd;W bgah].

2. Rajilfhg]g[neha;fs;:

- jilfhg]g[kz;lyk]/ Rabry;fs; kw;Wk] \yf;TWfSf;bfjpuhf bray;g]L/ mtw;iw mHpf;Fk] nghJ Rajilfhg]g[neha;fs; njhd;Wfpd;wd.
- Ra jilfhg]gpdhy; jPtpu epiyapYs;sJk]/ mjpfefs; gl]Jkhd tpahjpf; njhd;wyhk].
- ,d;Rypd; Crp njitg]gLfpd;w rh]f;fiu tpahjp/ ky;l]og]gps; !;fpsnuhrp!;/ hpa[khl]lhapL Mh]j;]jpiul]o!; nghd;wit vLj;Jf;fhl]LfshFK].

14. jilfhg]g[f; Fiwt[neha;fs; gw;wp tpthp.

- ,ay;g[my;yJ jftikt[neha;j;jilfhg]g[mikg]g[fspy; VnjDk] Fiw ,Ue;jhy; jilfhg]g[f; Fiwt[neha;fs; njhd;Wfpd;wd.
- \$Pd; jpOh]khw;wq;fs;/ neha[Wjy;/ nghjpa czt[!]lkpd;ik kw;Wk; tpgj;J nghd;w fhuzpfshy; jilfhg]g[f; Fiwt[cz;lhfyhk;.

1. jPtpu xUq;fpize;j jilfhg]g[f; Fiwt[neha; (SCID) :

- mondhrpd; O miknd!; Fiwt[vDk; kugpa Fiwghl]lhy; cz;lhfpuwJ.

- ,e;neha; ghjppj;jth]fspd; ,uj;j Xl]lj;jpy; ijnkhir]Lfspd; vz;zpf;if kpft[k; Fiwthf ,Uf;Fk;.
- SCID apdhy; ghjpf;fg]gl]lth]fs; ,sk] gUtj;jpnyna ,we;J tpLfpd;wdh].

2. **va;l]!; (AIDS):**

- ,J Mh].vd;.V it \$Pndhk] Mff; bfhz;l hpl]nuh itu!;fshy; MdJ.
- ,it cjtp bra;a[k; T bry;fis Fwpg]ghfj; jhf;fp mHpf;fpd;wd. T bry;fspd; Fiwthf; bgw;Wf; bfhz;l neha; jilfhg]ghdJ mwnt ,y;yhky; ngha;tplyhk;.
- itu!pd; Mh].vd;.V. \$Pndhk] MdJ hpth]!; ouhd;!;fphpg]nl!; vDk; itu!; behjpapdhy; o.vd;.V goahf khWfpwJ.
- ,g]gotq;fspypUe;J ouhd;!;fphpg]rd; Kiw \yk] itu!; \$Pndhkpd; VuhskhD gofs; cz;lhfpd;wd.
- gobaLf;fg]gl]l Mh].vd;.V. \yf;TWfs; itu!; Jfs;fshf btspnaw;wg]gLfpd;wd. ,J nkYk] gy T bry;fis mHpf;fpd;wd.

4. jw;fhy kugpay;

1. kdpjhp; fhzgjLk; VG bjhFjp Fnuhnkhrhk;fis gw;wp tpthp.

kdpjdp; cs;s 23 n\$ho Fnuhnkhrhk;fSk; VG bjhFjpfshf V (A) Kjy; \$p (G)

vdg] bgahpl]L tHq;fg]bgWk].

- **bjhFjp A** :Fnuhnkhrhk;fs; 1/ 2 kw;Wk; 3 cs;sd. mstpy; kpf]bgghpaJ/ bkl]lhbrd;l;hpf;.
- **bjhFjp B**: Fnuhnkhrhk;fs; 4 kw;Wk; 5 cs;sd. rhh]g[bkl]lhbrd;l]hpf;.
- **bjhFjp C**:Fnuhnkhrhk;fs; 6/ 7/ 8/ 9/ 10/ 11/ 12 kw;Wk; X cs;sd. kpjkhd mst[. rhh]g[bkl]lhbrd;l;hpf;. X Fnuhnkhrhk; 6 tJ Fnuhnkhrhk xj;jpUf;Fk;.,J kpf]bgghpa bjhFjpahFk;.
- **bjhFjp D**:Fnuhnkhrhk;fs; 13/ 14 kw;Wk; 15 cs;sd. kpjkhd mst[. mf;nuhbrd;l]hpf;.
- **bjhFjp E**:Fnuhnkhrhk;fs; 16/ 17 kw;Wk; 18 cs;sd. mstpy; Fl]ilahdJ. rhh]g[bkl]lh brd;l]hpf; my;yJ bkl;lhbrd;l;hpf;.
- **bjhFjp F** : Fnuhnkhrhk;fs; 19 kw;Wk; 20 cs;sd. Fl]ilahdJ. bkl]lhbrd;l;hpf;.
- **bjhFjp G**:Fnuhnkhrhk;fs; 21/ 22 kw;Wk; Y . kpf; FWfyhdJ. mf;nuhbrd;l]hpf;.

2.kugpay; bghwpapay; rhjdq;fs; gw;wp TWf.

1.**behjpf**;: a. vf;nrh epa{f;spna!;fs; b. vd;nlh epa{f;spna!;fs; c. bu!;hpf;rd;

vd;nlh epa{f;fspna!;fs; d. Xhpirr]rq;fypapd; DNA Kidfis rPuhf;Fk; SI behjpf;.e. DNA ypnf!;fs; f. my;fiyd; gh!;gn!; g. vjph]kiw ouhd;!; fphpg]n!;

h. DNA ghybknul;.

2. **may; DNA**:: gaz DNA : ,Jnt behjpahy; gphpj]bjLf;fg]gLfpd;w kw;Wk;

gpujpbal;fg] gLfpd;w DNA rq;fypapd; xU Fwpg]gp]l Jz;lk; (may; \$Pd;) MFk].

3. **Fnshdpq; btf;lh]fs**; : btf;lh]fs; my;yJ Ch]jp DNA vd;gJ may;DNA

Jz;l;ij; jd;Did; ,izj;Jr] Rkf;fpd;w DNA f;fs; MFk]. ,it bgUk]ghYk]

ghf;Ohpahf;fspd; gpsh!;kpL DNA kw;Wk] ngf;Ohpnah@ng\$; itu!;fSk] MFk].

3.kWnrh]f;if DNA bjhHpy; El]gj;jpd; gad;fs; ahit>

1. a{nfhpna]l] \$Pd;fspd; mikg]g[kw;Wk] mtw;wpd; gFjpfis Muha cjt[k].

2. kug]g] bghwpapay; ghf;Ohpaq;fs; \yk] rpy caph]fhf;Fk] kUe;Jfs;/ itu!; kw;Wk; nfd;rh] vjph]g]g[,d;lh]@bguhd;/ kdpj tsh]r]rp Qhh]nkhd; Mfpait bgwg]gLfpd;wd.

3. neha; vjph]g]g]j; jpwd; bfhz;l g]jpa l]uhd;!;\$Pd;f; jhtuq;fis cUthf;f cjt[k].

4. kdpjd; kw;Wk] tpyq;Ffs; cs;s \$Pd; FiwghLfis fz;lwpe;J mtw;iw \$Pd; rpfpr]ir \yk] rhpbra;a cjt[k].

5. kug[khw;wk] bra;ag]gl]l Ng]gh] gf; vd;w ghf;Ohpak] vz;bza; fHpt]fis rpjif;fty;y jpwd; bgw;wJ.

4. kdpj \$Pndhk] jpl]l;jpd; Kf;fpaj;Jtq;fis vGJf.

1. rpy caph]bfhy;yp neha;fshd g[w;Wneha; nghd;wtw;iw Fzg]gLj;Jk] tHpKiwia fz;lwpa cjt]fpd;wJ.

2. kdpjdp; njhd;Wk] neha]fs; gw;wpj; bjspthf mwpat[k] mjw;nfw;g kUe;Jfis cUthf;ft[k] cjt[fpd;wJ.
3. neha;fisj; njhw;Wtpf;Fk] FiwghLs;s \$Pd;fis mwpa cjt[fpd;wJ.
4. ey;y gpwg]g[kw;Wk; ey;y kug[tHp rKjha mikg]g[f; bfhs;iff;F kdpj \$Pndhk; jpl]lk] xU fUt pahf bray;gLfpwJ.
5. ,j;jp]lk] clw;bry; \$Pd; rpfpr]ir kw;Wk] fUtHpapyhd \$Pd; rpfpr]ir Kiwf;F cjt[fpd;wd.

5. Fnshdpq; eilbgWk] Kiwapid cjhuzj;Jld; tpthp.

1. lhf;lh]. mahd; tpy;kl] vd;gth] lhyp vd;w brk;kwp Ml]Lf;Fl]oia Fnshdpq; Kiwg]go cUthf;fpdhh].
2. mth] bgz; brk]kwp Ml]od; koapy; cs;s ,ul]il Fnuhnkhnrhk] vz; (2n) bfhz;l cly; bry;iyj; njh]e;bjLj;jhh].
3. mnjnghy; kw;bwhU Ml]od; (bfhilahsp) mz;l;jig] gphpj;bjLj;jhh].
4. kobry;ypd; cl]fUit (2n) ePf;fp/ cl]fU ePf;fg]gl]l Kl]il bry;ypDs; bghUj;jpdhh].
5. gpd;dh] ,ul]il vz; (2n) cl]fU bfhz;l fUKl]il/ mjd; jha; brk]kwp Ml]od; fUg]igapDs; kPz;Lk] bghUj;jg]gl]J.
6. fUKl]il fUg]igapDs; tsh]e;J cUthd Fnshdpq; brk]kwp ML kor]bry; tHq;fpa brk]kwp Ml]oid xj;jpUf;Fnkad;wp/ fUKl]il tHq;fpa brk]kwp Ml]oid xj;jpuhJ.

6. Fnshdpq; bra;Kiwapd; xGf;ftpay; tpist[ffis vGJf.

1. Fnshdpq; Kiwg]go tpyq;Ffis cw;gj;jp bra;jy; xGf;ftpaYf;Fk]/,aw;if epajpf;Fk] xt]thj bjhHpy;El]gkhfr] rpyuhy; fUjg]gLfpd;wJ.
2. Fnshdpq; Kiwapy; jPa kdpjh]fisa[k] njhw;Wtpf;ff; TLk].
3. Fnshdpq; Kiwapy; gpwf;Fk] FHe;ijfs; kug[tHpj; jha;fis xj;jpUg]gjpy;iy.
4. Fnshdpq; \yk] cUthd tpyq;Ffspy; \l]Ltyp nghd;w neha;fs; njhd;wpa]s;sd.
5. Fnshdpq; bra;Kiwapy; fUKl]il bry;fs; tPzof;fg]gLk].
6. cly;bry; \yk] gpwe;j Fnshdpq; ,d caphpfs; FWfpa thH;ehs; fhyj;ijna bfhz;oUf;Fk].
7. Kw;wpYk] mHpe;J tpl]l tpyq;fpdq;fis my;yJ mHpaf;Toa epiyapy; cs;s tpyq;fpdq;fis kPz;Lk] caph]gpj;J epiyg]gLj;j ,aYk].
8. Fnshdpq; bra;Kiwia kdpj cly; cWg]g[ffis/ mtw;wpd; \yr]bry;fs; \yk] tsh]f;f gad;gLj;jyhk]. ,jd; \yk] gy kdpj caph]fisf; fhg]ghw;w ,aYk].

7. kug]g] bghwpapaypd; Kf;fpaj;Jtq;fs; ahit>

1. caphp jftypay; \yk] caph]fhf;Fk] bghUl]fshd ,d;Rypd;/ tsh]r]rp Qhh]nkhd;fs;/ ,d;lh]@bguhd;fs;/ khndhFnshdy; Md;l]oghofs; cw;gj;jp bra;ag]gLfpd;wd.
2. Rw;Wr] NHypy;/ kz; kw;Wk] ePh] khRWjy; Fiwf;fg]gLfpd;wJ.
3. fHpt[kWRHw;rpapd; \yk] cw;gj;jpia bgUf;f cjt[k].
4. gaph] jhtuq;fspd; ,dg]bgUf;fj;jpy; gad;jU \$Pd;fs; EiHf;fg]bgw;W cw;gj;jp Tl]g]gLfpd;wJ.
5. ntshz; gaph]fspy; jPq;Faphpfs; jhf;fj;jpw;F vjph]g]gpj Vw;gLj;j cjt[k].
6. \$Pd; rpfpr]irfs; \yk] neha;fisf; Fzg]gLj;jyhk].

8. caphp jftypaypd; neh;fq;fs; ahit>

1. xU bry; caphpypUe;J gy bry; caphpfs; tiu mtw;wpd; \$Pndhk]fs; kw;Wk; g[ujr] rPh]thpirSf;fhd kpd;dq jut[g] g[yj;ij cUthf;fyhk].
2. caphp \yf;TWfspd; mikg]g[kw;Wk] bray;ghl]oid mwptJld; mtw;wpd; Kg]ghpkhz mikg]g[ffis mwpe;J bfhs;s ,aYk].

3. caphpapay;/ caph] ntjapapay; kw;Wk] caph] ,aw;gpay; jut[ffis Ma;tjw;fhd fzpjg] g[s;spapay; kw;Wk] fzpdp Kiwffis ,izf;fpd;wJ.
4. epa{f;spf; mkpy kw;Wk] g[uj thpirfspd; mikg]g[/ bray;ghLfs;/ bjh]h]tpidfs; kw;Wk; \$Pd; xUq;fpiz bray;fs; Mfpatw;iw Ma;t[bra;J /nrkpg]gjw;fhd bray;Kiwffis tFj;Js;sJ.
5. caphp jftyapaypd; fzpdp Kiwffs;/ \$Pndhk] kw;Wk] g[uj epiyapy; kl]Lky;yhky; KG caphp mstpYk] my;yJ xU NHy; kz;ly mikg]gstpYk] bra;jpfisr] nrhfpj;J Ma;t[bra;a[k].
6. Fiwt[g]] \$Pd;fspd; bray;ghl]oid mwpe;J/ mjd; \yk] nehia fz;lwpe;J g[jpa tif kUe;Jfis njhw;Wtpf;ft[k] tHp gpwf;Fk].

9. **vhpjzy; fhp vd;why; vd;d> ,jd; Kf;fpaj;Jtq;fs; ahit>**

vhpjzy; fhp vd;gJ g[uj mikg]gpid tpsf;Fk] fpuhgpf;!; fzpdp khjphpahFk].

gad;fs; :

1. g[[uj mikg]g[bry; kw;Wk] jpRf;fspd; fl]likg]iga[k] mtw;wpd; caphp \yf;Tw;W thpiraikg]iga[k] mwpag] gad;gLfpwJ.
2. g[uj mikg]g[fs;/g[uj khjphpfs;/fzpdp tiugl khjphpfs; caphpay; tpidfis mwpa cjt[fpd;wd.
3. fzpdp tiugl khjphpfs; xU g[uj]jpy; ve;j xU gFjp kUj;Jt Kf;fpaj;Jtk] bfhz;J vd;gij mwpe;J mjd; \yk] jLg]g[Crpfisa[k]/ kUe;Jfisa[k] cUthf;f gad;gLfpd;wd.
4. g[[uj; jftyapay; ntjpi; bjhHpw;rhifspy; kUe;Jfs;/gy;ntW ntjpf;Tl]Lg] bghUs;fs; kw;Wk] behjpfspd; cw;gj;jpf;F tHp tFf;fpd;wJ.

5. ghpzhkf; nfhl]ghLfs;

1. **lhh]tpdpaj;jpd; FiwghLfs; ahit>**

1. Kd;ndhf;fpa ghpzhk khWjy;fspy; ntWghLfspd; Kf;fpaj;Jtj;jpid tpsf;fpa lhh]tpdhy; mt;ntWghLfs; vt;tpjk] njhd;wpd vdf;Tw ,aytpy;iy.
2. kpfr]rpwe;jit vdr] rpy tpyq;Ffis lhh]tpd; Fwpg]gpl]J nfs;tpf; Fwpahfpa[s;sJ. midj;J epiyfspy; cs;sita[k] thGk] chpik bfhz;liffs; vdj; jw;fhy mwptpayhh] bjhptpf;fpd;wdh].
3. kug[epfH;t[fs; bjh]h;ghd mog]gilfs; lhh]tpdpd; fhj;jpy; fz;Lgpof;fg]gltpy;iy. ,jdhy; lhh]tpd; rh]t gpwg]g[f;bfhs;ifapy; ek;gpf;if bfhz;oUe;jhh].
4. mah]yhe;jpd; khd;fspy; bfhk;g[fs; mst[f;jfjpkhfr] rpwg]g[w;wjhy; mt]tpdq;fs; mHpe;bjhHpe;jd. ,jid lhh]tpdpak] tpsf;f ,aytpy;iy.

2. **,dg]bgUf;fr] nrh]f;ifapd; Kd; jdpikg]gL;Jjy; gw;wp Fwpg]g[tiuf.**

,k;Kiwahy; ,U ntWg]l ,dq;fSf;fpilna ,dg]bgUf;fk] jtph]f;fg] gLfpwJ.

1. **Rw;Wr]NHyhy; jdpik:** xU Fwpg]gp]l ,lj;jpy; khWg]l ,aw;ifr] NHy;fshy;
caphpdq;fs; jdpikg]gLj;jg]glyhk].
2. **gUtfhyj; jdpik:** ,dr]nrh]f;if btt;ntW gUtfhyq;fspy; epfHyhk].
3. **ghy; czh]t[/ cstpay; (m) elj;ijj; jd;ik:** ,UkhWg]l ,dq;fspilna elj;ij
KiwfspYs;s ntWghLfs;.
4. **mikg]g[xt]thik:** ,dg]bgUf;f cWg]g]fs; nrh]f;iff;F xt;thj mst[ilajhf
,Uj;jy;.
5. **,dr]bry; xt;thik :** Xh] ,dj;jpd; tpe;J bry; ntbwhU ,dj;jpd; mz;lk] my;yJ
fUK]ilia beUq;fhJ.

3. rpwg]gpdkhjiy tpthp.

- Xh] rpwg]gpdk] vd;gJ ,aw;ifahd/ caphpay; myfhFk;.
 - caphpdq;fspd; tifghl]L myFfspy; rpwg]gpdk] kl]Lnk kdpjdhy; Vw;gLj;]g]gl]ld;W.
 - rpwg]gpdk] vd;gJ ,aw;ifapd; Xh] cz;ik mikg]ghFk].
 - ghpzhkkhdJ rpwg]gpdq;fspd; kl]lj;]pnyna eilbgWk].
 - ,f;fhuzj;]pdhnyna lhh]tpdpd; rpwg]gpdq;fspd; njhw;wk] vDk] E}Yf;F Kf;fpaj;Jtk] jug]gl]Ls;sJ. ,dq;fspy; gy tiffSz;L.
1. **ntw;wpl rpw;wpdq;fs**; : ,it khWgl] g[tpaikg]g[fspy; thH;git. ,e;jpa/ ,yq;if thH; jtisfis ,jw;F cjhuzkhff; Twyhk]. ,t;tpU epyq;fSk] kd;dh] tisFlhtpdhy; gphpf;fg]gl]Ls;sd.
 2. **Xhplr] rpw;wpdq;fs**; : kpf beUq;fpa ,uz;L rpw;wpdq;fs; cUt xw;Wik bfhz;oUj;]jy; MFk]. ck]. uhdhbQf;rlhf;ilyh/ uh. ilf;hpdh/ uh. randhgpyf;ol; - ,it xnu Fsj;]jpy; thGk].

,t;tifapy; gytif rpw;wpd mikg]g[fs; ghpzhkj;]jpy; njhd;wyhk].

10 kjpg]bgz; tpdhf;fs; :

1 clw; braypay;

1. rpWFlypy; eilbgWk] brhpj;]jy; epfH]t[fis tpsf;ft[k].

rpWFly; :

- rpWFly; ePsk] 5 - 7 kPl]lh]. onahodk]/ \$P\$Pdk] / ,ypak] vd \d;W gFjpfSilaJ.
- Kd;rpWFly; gFjpapy; gpj;]ePh]/ fiza ePh]/ Kd; rpWFly; ePh] vd \d;W bghUl]fs; bfh]l]g]gLfpd;wd.

gpj;]ePh] :

- fy;yPuypy; njhd;Wk] gGg]g[lid; gr]irepwKila fhug]bghUs;.
- gpj;]ePhy;/ ePh]/ nfhiHg]bghUs;/ cg]g[fs;/ bfhy;!;uhy;/ gpj;] epwkpf;/ gpj;]ePh] cg]g[fs; nghd;wita[s;sd.
- gpj;]ePh] cg]g[fs;/ bghpa bfHGg]g[g] bghUl]fiser] rpwpa bfHGg]g[jptitfshf khw;Wfpd;wd.

fiza ePh] :

- ,J fhuj;]d;ika[s;sJ (pH 7 to 8)
- fiza ePhy;/ ohpg]rpd;/ ifnkhoHpg]rpd;/ mkpny!;/ iyg]ng!;/ fhh]ghf;rp bgg]on!;/ epa{f;spna!; nghd;w vd;irk]fs; cs;sd.
- **mkpny!**; behjp !;lhh]r]rpid khy;l]nlhrhf gFf;Fk].
- **ohpg]rpd;/ ifnkhoHpg]rpd;/ fhh]ghf;rp bgg]on!**; vd;irk;fs; ghypbgg]ilLfis/ bgg]nlhd;fs;/ rpwpa bgg]ilLfs;/ mkpndh mkpyq;fshfr] rpijt[wr] bra;fpd;wd.

- **iyg]ng!;/** bfhGg]gpd; oiufpspriuLfis bfhGg]g[mkpyk]/ fpspruhyhg] gphpf;Fk].

Kd;rpWFLy; ePh] : vd;irk]fSk] bray;fSk].

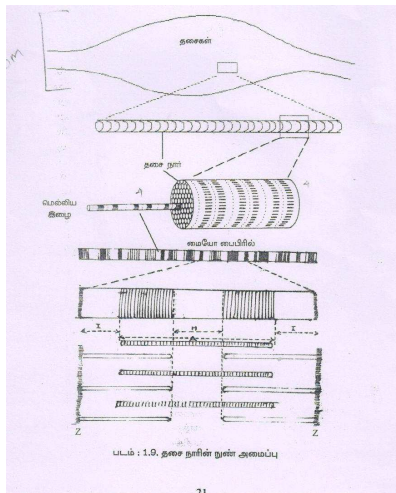
- iyg]ng!;
1. bfhGg]g[-----> bfhGg]g[mkpyk; + fpspruhy;
- Rf;nuh!;
2. Rf;nuh!; -----> FSf;nfh!; + gpuf;nlh!;
- khy;]nlh!;
3. khy;]nlh!; -----> FSf;nfh!; + FSf;nfh!;
- yhf;nlh!;
4. yhf;nlh!; -----> FSf;nfh!; + fhyf;nlh!;
- vhpg]rpd;
5. bgg]ilLfs; -----> mkpndh mkpyq;fs;
- epa{f;spna!;
6. DNA / RNA -----> epa{f;spnahilLfs; + epa{f;spnahirLfs;.

2. xU vYk]g]j; jirapd; mikg]ig tpthp.

- xU thp;jirapy; gy jir eh]fs; fw;iwfshf mike;Js;sd.
- jirehh]fspd; FWf;F tpl]l mst[10 Kjy; 100 ikf;uhd;. ePsk] 1 kp.kP Kjy; 20 kp.kP.
- xt;bthU jir ehiur] Rw;wpa[k; **rhh]nfhbyk;khvDk;** rt;t[g]glyk; fhzg]gLfpwJ.
- xt;bthU jir ehhpYk;/ 4 Kjy; 20 tiu **iknah@ighpy;fs;** fhzg]gLfpd;wd.
- iknah@iggphpy;fspd; tpl]l mst[1 Kjy; 3 ikf;uhd; .
- iknah@iggphpydpd; xU jdp Jz;ow;F **rhh]nfhkpah]** vd;W bgah].

rh]nfhkpahpd; mikg]g[:

- rh]nfhkpahpy; mlh];jpahd (A- fw;iw) kw;Wk; mlh];jpaw;w fw;iwfs; (I- fw;iw) khwp khwp fhzg]gLk;.
- A - fw;iwapd; kj;jpapy; xU Fiwthd mlh];jpia cila gFjp (H gFjp) cs;SJ.
- I - fw;iw xU Z totf; nfh]jodhy; ,uz;lhf] gphpf;fgg]Ls;SJ.
- Xt;btU rh]nfhkpahpYk]/ ,uz;L mLj;jLj;j Z nfhLfSf;F ,ilna thpirahf
Z nfhL/ I - fw;iw/ A- fw;iw/ I- fw;iw kw;Wk] Z nfhL nghd;wit
cs;sd.
- A- fw;iwapy; **iknahrpd;** vd;Dk; joj;j g[uj ,iHfs; fhzg]gLfpd;wd.
- **iknahrpd;** ,iHfspd; tp]l mst[110 A⁰ kw;Wk; ePsk; 1. 5 ikf;uhd;.
- **Mf;od;** vd;Dk; Ez; ,iHfs; A fw;iwapd; kPJk;/ Xustpw;F I fw;iwapd; kPJk;
ePz;oUf;fpd;wd.
- jirehh]fspd; RUq;Fk] braypy;/ **iknahrpd;** / Mf;od;/ onuhnghiknahrpd;
kw;Wk; onuhnghd; Mfpa ehd;F Kf;fpa g[ujq;fs; bray;gLfpd;wd.
- jirehh]fspd; bray;fSf;F njitahd Mw;wy; ATP \yf;TWfspypUe;J
bgwg]gLfpwJ.



3. Rthrk] eilbgWk; Kiwapid tpsf;Ff.

kh]giw :

- kh]giwapy; Vw;gLk; mG;j khw;wq;fshy; cl]RthrKk; btspr]RthrKk] Vw;gLk;.
- kh]giw Kd;g[wk; kh]bgYk;g[/ gpd;g[wk; KJFbfYk;g[j; bjhlh]/ gf;fq;fspy; tpyh
vYk;g[fs;/ fPH;g]g[wkhf cjutpjhd; vd mikf;fg]l] fhw;Wg]g[f ,ayhj miw.
- tpyh vYk;g[fspilna cs;s btspg]g[w/ cl]g[w tpyh vYk;gpilj;jirfspd; ,af;fj;jhy; kh]giwapd;
bfhs;ssit mjpfhpf;ft[k; Fiwf;ft[k; ,aYk;.

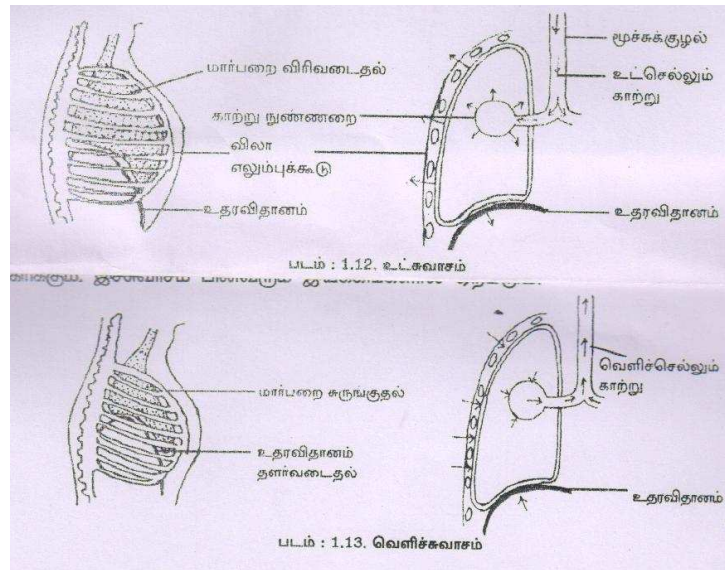
cl]Rthrk] :

- ,J Xh] bray;kpF epfH;r]rp.
- btspg]g[w tpyhvYk;gpilj; jirfs;/ cjutpjhd; gq;F bgWfpd;wd.

- btspg]g[w tpyhvYk;gpilj; jirfs; RUq;Ftjhy; tpyh vYk;g[fs; Kd;g[wj;jpy; rw;W nky;nehf;fp caUfpd;wd. ,jdhy; khh]giw gf;fth]oYk;/ KJF - tapw;Wg]g[w th]oYk; bgphjfpwJ.
- cjutpjhdj;jpd; t]lj;jirfs; RUq;Ftjhy; nky;nehf;fp cah]e;jpUe;j cjutpjhdj; j]ilahfpwJ. ,jdhy; khh]giwapd; nky; - fPH; th]oy; bfhs;sst[TLfpwJ.
- khh]giwapd; bfhs;sst[mjpfhpj;J EiuapuyDs; fhw;wpd; mGj;jk] Fiwa[k;. vdnt btspf;fhw;W EiuapuyDs; EiHa[k;.

btspr]Rthrk; :

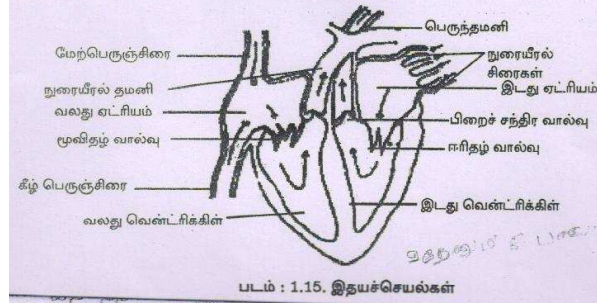
- ,J Xh] ke;jj;jd;ika]ila bray;.
- cjutpjhdj] jsh]r]rpaile;J / ,ay;ghd nkw;Ftpe;j mikg]ig mila[k;.
- cs; tpyh vYk]gpilj; jirfs; RUq;Ftjhy; tpyh vYk;g[fs; ,ay;ghd epiyf;Fj; jpUk;g[k;.
- ,jdhy; khh]giwapd; bfhs;sst[Fiwe;J EiuapuyDs; fhw;wGj;jk; mjpfhpj;Fk;. vdnt fhw;W EiuapuyDs;J btspnaw;wg]gLk;.



4. ,jak] bray;gLk; nghJ eilbgWk; epfH;tpid tpsf;Ff.

- ,jak; ,uj;jk; XLjYf;fhd tpirapaf;ff; fUtpahFk;.
- tyJ VI]hpa miw Mf;!p\$d; ePf;fg]g]l] ,uj;jj;ij nky;/ fPH; bgUQ;rpiufs; \yk; bgWk;.
- ,IJ VI]hpa miw Mf;!p\$d; bgw;w ,uj;jj;ij Eiuapuy; rpiufs; \yk; bgWk;.
- ,U VI]hpa miwfSk] RUq;Fk; ntisapy; Kiwna ,uj;jk] tyJ/ ,IJ btd;I]hpf;fps;fis mila[k;.
- tyJ btz;I]hpf;fppypUe;J Eiuapuy; Kf;fpa jkdp,uj;jj;ij Mf;!p\$d; bgWtjw;bfd Eiuapuy;fSf;F vLj;Jr] bry;Yk;.
- ,IJ btd;I]hpf;fppypUe;J Xh] bgUe;jkdp njhd;wpa[s;Sj. ,j;jkdpapypUe;J nfhnuhdhp jkdpfSk; / cly; Rw;Wf;fhd jkdpfSk; njhd;wpa[s;sd.
- tyJ VI]hpa;jjypUe;J tyJ btd;I]hpf;fpSf;F ,uj;jk; ,wq;Ftij <tpjH; thy;t[fl]Lg]gLj;Jk;.
- ,IJ VI]hpa;jjypUe;J ,IJ btd;I]hpf;fpSf;F ,uj;jk; ,wq;Ftij <hpjH; thy;t[my;yJ ikl]uy; thy;t[fl]Lg]gLj;Jk;.

- Eiuapuy; jkdp / bgUe;jkdp Mfpa FHy;fspDs; ,uj;jk; EiHtijg] gpiw re;jputhy;t[fs; guhkhpf;Fk;.



5. ,ja ,af;fj; J}z;ly; njhd;wYk] gutYk] kw;Wk] ,ja ,af;f RHw;rp gw;wp tpthp.

,ja ,af;fj;J}z;ly; njhd;wYk; gut[jYk] :

- ,jaj; jirfspd; RUq;FjYk; tphptiljYk; Xh] ,af;fkhhf; Fwpg]gpl]l goepiyfspy; eilbgWk].
- ,j;jifa ,af;fj;jpw;bfd irD - Mhpf;Fyhh] fq (SA fq)/ VI]hpnah - btd;l]hpFyhh] fq (AV fq)/ Qp!;rpd; fw;iw/ g[h]fpd;\$p ,iHfs; nghd;w mikg]g[fs; cs;;sd.
- SA fqthdJ tyJ VI]hpaj;jpd; nky;g[wg] gf;fr]Rthpy; mike;Es;sJ. ,jd; mst[1.5 br.kP. × 3 kp.kP. MFk;.
- SA fqthdJ kpd; J}z;Ljy;fisj; njhw;Wtpf;Fk] jpwDilaJ. ,j;J}z;ly; jpwd; Mhpf;fps; KGtJk; gut ,aYk; ,g]gutypd; ntfk; 0.3 kP/ brfz;L MFk;.
- SA fqtpd; J}z;Ljy; AV fqtpw;Fg] gut[k;. AV fqtpypUe;J J}z;Ljy;fs; Qp!;rpd; fw;iw/ g[h]fpd;\$p ,iHfs; Mfpatw;wpw;Fg] gut[k;.

,ja ,af;fr] RHw;rp :

- Xh] Jtf;f ,jaj;Jog]g[j; njhd;wp gog]goahfg] gy epfH;r]rpfspd; gpd; kPz;Lk; ,jaj; Jog]gpd; Jtf;fk; njhd;Wjy; Xh] ,ja ,af;fr] RHw;rpahFk;.
- ,jak; RUq;Fjy; rp!;nlhy; vdg]gLk; ,jak; tphptiljy; ila!;nlhy; vdg]gLk;.

VI]hpa rp!;nlhy; :

- tyJ VI]hpak; /nky;/ fPH; bgUQ;rpiufs;/ ,jaj;jir ird!; FHy;fs; \yKk;/ ,IJ VI]hpak; ehd;F Eiuapuy; rpiufs; \yKk; ,uj;jj;ijg] bgUfpd;wd.
- VI]hpaj;jpypUe;J btd;ohpf;fps;fSf;F 70%,uj;jk] jhdhf fPHpwq;Fk;. vQ;rpa 30% VI]hpa miw RUq;Fjyhy; jpzpf;fg]gLk;.

btd;l]hpf;fps;fs; epug]g[jy; :

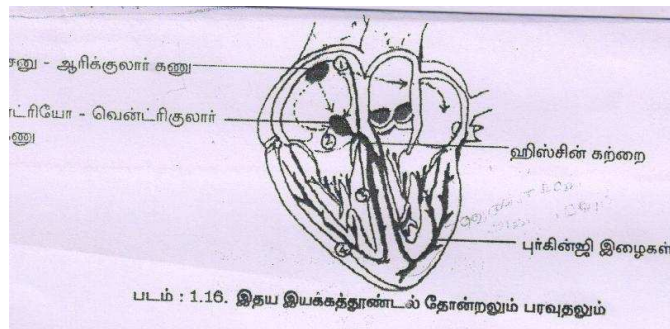
- VI]hpaq;fSf;Fk; btd;l]hpf;fps; miwfSf;Fk; ,ilna cs;s thy;t[fs; jpwg]gjhy; btd;l]hpf;fps;fspy; ,uj;jk; \d;wpy; ,U gq;F epuk;g[k;. vQ;rpa ,lk; VI]hpa RUf;j;jhy; epug]gg]gLk;.

btd;l]hpf;Fyhh] rp!;nlhy; :

- VI]hpa rp!;nlhy;; Koe;jt[lid; btd;l]hpf;fps;fspd; Rth] RUq;Fk;. ,t;tpjk; Vw;gLk; btd;l]hpf;Fyhh] mGj;j tpirahy; ,uj;jk/ miu re;jpu thy;t[fs; jpwf;fr] bra;J chpa jkdpfspDs; gha;e;J EiHa[k;.

btd;l]hpf;Fyhh] ila!;nlhy; :

- btd;l]hpf;fps;fs; RUq;fp ,uj;jk; btspnawpat[lid; ,uj;j mGj;jk] Fiwt]gLk;.miur]re;jpu thy;t[fs; \g]gl;L VI]hpa thy;t[fs; jpwf;Fk;. mLj;j ,ja ,af;fr] RHw;rp Jtq;Fk;.



6. ,uj;j;jpd; ,iagpid gw;wp vGJf.

,uj;jk; :

- ,uj;jk; jput epiyapYs;s ,izg]g[j; jpRthFk;.
- ,uj;j;jpy; gpsh!;kh 55% / bry;fs; 45% fhzg]gLk;.

gpsh!;khtpd; TWfs; :

1. ePh] - fiug]ghd; / ,uj;jg] bghUI]fspd; jhq;fp Clfk;.
2. gpsh!;kh g[nuh]Od;fs; - jhq;F jput bghUI]fs;. Qhh]nkhD;fs;/ madpfshf bray;g[hpy; / ,uj;jk; ciwjy;.
3. madpfs; - CLfhg]g[xGq;FghL / mkpy - fhuj;jd;ik rkd;ghL.
4. czt[g]bghUI]fs; - rf;jpaspj;jy;/ clypd; f]lLkhd bghUI]fs;/ behjpfspd; bray;fs;.
5. fHpt[g]bghUI]fs; - rptg]gqf;fspd; mHpt[g]bghUI]fs;/ mdnuhgpf; Rthr Kot[g] bghUI]fs;.
6. tha[f;fs; - Vnuhgpf; Rthr epfH;t[fs;/ tsh]rpij khw;wf; fHpt[fs;.
7. Qhh]nkhD;fs;/ vd;irk;fs; - clw;bray;fs;.

,uj;jr] bry;fs; :

1. **,uj;jr] rptg]gqf;fs; :**
 - ,it tll] totpy; ,Ug[wKk; FHpe;j bry;fs;. ,r]bry;fspy; cl]fU ,y;iy.
 - ,itfsy; QPnkhFnshgpd; fhzg]gLfpwJ. ,uj;jk; rptg]g[epwk;.
 - QPnkhFnshgpd; clypDs; Mf;!p\$idf; flj;Jk;.
 - thH;ehl]fs; Mz;fspy; 120 eh]l]fs;/ bgz;fspy; 110 eh]l]fs;.
 - ,it tpyh vYk;g[fs;/ KJbfYk;g[fspd; vYk;g[k\$;i\$apy; cw;gj;jpahfpd;wd.
 - Kjph]tile;j rptg]gqf;fs; fy;yPuy;/ kz;zPuypy; mHpf;fg]gLfpd;wd.

2. **,uj;j bts;isaqf;fs; :**

- ,r]bry;fspy; QPnkhFnshgpd; ,y;iy/ cl]fU cz;L. ,it efuf;Toait.
- clypDs; EiHa[k; Ez;qaphpfpypUe;J ,it ekJ cliy ghJfhf;fpd;wd.
- ,uj;j bts;isaqf;fs; le;J tifg]gLk;. mitfs;/

(m). epa{[]nuh@gpy;fs; (eLtikr]bry;fs;)(60 - 70%)

- bgUk;ghyhd bts;isaqf;fs;; ,t;tifia rhh]e;jit.
- ,tw;wpw;Fg] gy;YU cl]fU epa{[]nuh@gpy;fs; vd;W bgah].

(M). ,nahrpndh@gpy;fs; (,nahrpndw;gpfs;) (0.5 - 3.0%)

- cly; cWg]g[fspd; jpRf;fspy; tPf;fk; Vw;god; ,it mq;F efh]e;J bry;fpd;wd.
- Xt;thikj; jd;ikapy; ,tw;wpd; vz;zpf;if mjpfhpf;Fk;.

(.) .ngnrh@gpy;fs; (fhur]rha nk;gpfs;) (0.1%)

- Xt;thik epiy/ cly; jpR tPf;fq;fs; Vw;gLjypy; ,it Kf;fpa gq;fhw;Wfpd;wd.
- ,tw;wpYs;s Qpg]ghhpd; vDk; bghUs; ,uj;jk; ciwjij; jilbra;a[k;.

(<). ypk;nghir]Lfs; (epzePh]r] bry;fs;) (20 - 30%)

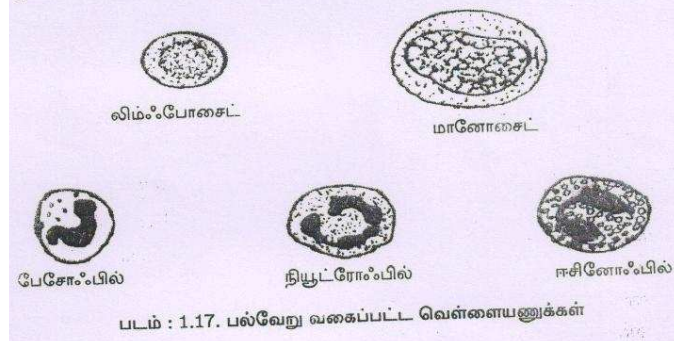
- ,it kpfr]rpwpa bts;isaqf;fs;. B- bry;fs;/ T- bry;fs; ,U tifg]gLk;.
- B- bry;fs; Mz;ogho vDk; vjph] er]Rf;fis jahhpf;ff; Toait.
- T- bry;fs; itu!;fis vjph]j;J jhf;ff;Toait.

(c). nkhdhirl]Lfs; (xw;iwr] bry;fs;) (1 - 4%)

- ,it bghpa bts;isaqf;fs;.
- ghf;Ohpaq;fs;/ ,we;j bry;fs;/ bry; Jqf;iffis mHpj;JtpLk; jd;ika[ilaait.
- cly; bjhw;W nehahy; jhf;fg]gLk; ntisfsy; ,tw;wpd; vz;zpf;if mjpfhpf;Fk;.

3. ,uj;j gpns]byl]Lfs; (,uj;j; j]ilar] bry;fs;)

- ,uj;jk; ciwjypy; Kf;fpa gq;fhw;Wfpd;wd. ,it 5 - 9 eh]fs; thHf;Toait.
- ,it bry;fspd; rpW gphpt[fshf njhd;Wgit.



7. fz;zpy; fhzg]gLk; FiwghLfisa[k; mtw;wpid rhpbra;a[k; Kiwfisa[k; vGJf.

,bkl]nuhgpa:

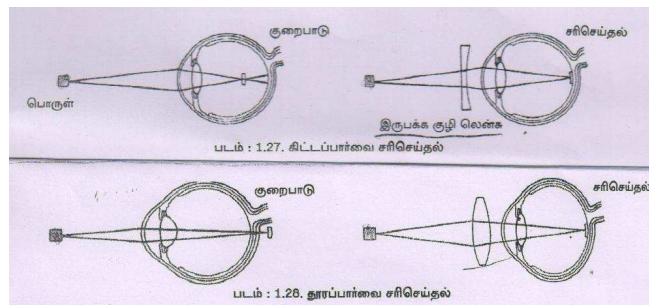
- Fiwghlw;w fz;zpy;/ btF bjhiyt[Kjy; 25 br.kP mUfpy; cs;s bghU]fs; tiu bjspthf gh]f;Fk; tifapy; tpHp Vw;gikt[bgw;Ws;sJ. ,e;epiyf;F ,bkl]nuhgpa vd;W bgah].

Vbkl]nuhgpa:

- ,bkl]nuhgpa epiyapypUe;J khWghL mile;jhy; mjid Vbkl]nuhgpa vd;gh].
- Vbkl]nuhgpahtpd; Kf;fpa epiyfs; iknahgpa/ iQg]gh] bkl]nuhgpa/ m!;of;nkl]ork; kw;Wk; gpu!;ignahgpa MFK;.

(m) iknahgpa - fp]lg]gh]it :

- fz; byd;rp; g[w tist[g] gFjp mjpfhpg]gjhYk;/ fz;nfhsk; ePl]rpa[UtjhYk; Vw;gLfpwJ.
- J}uj;jpy; cs;s bghU]fspypUe;J tUk; xspf;fjph]fs; njitf;F mjpfkhf rpjwyiltjhy; xspf;fjph]fs; tpHpj;jpiuf;F Kd;dhy; Ftpf;fg]gLtjhy; gpk;gk; bjsptw;wjhf czg]gLfpwJ. ,e;epiy fp]lg]gh]it cdg]gLk;.
- fp]lg]gh]itia FHp byd;rp; \yk; rhp bra;ayhk;.



(M) iQg]gh] bkl]nuhgpah - J}ug]ghh]it :

- fz;zpd; byd;R gFjpapy; nghJkhd g[wtist[,y;yhjpdhy; iQg]gh] bkl]nuhgpah cz;lhfwpJ.
- mUfpy; cs;s bghU]fspy; ,Ue;J tUk; xspf;fjph]fs; nghJkhd mst[rpjwyilahijhy; xspahdJ tpHpj; jpiuf;F gpd;gFjpapy; Ftpf;fg]gLfpwJ. .e;epiy **J}ug]ghh]it** vdg]gLk;.
- J}ug]ghh]itia **Ftpbyd; rpd;** \yk; rhp bra;ayhk;.

(,) m!;of;nkl]ork; :

- ,f;Fiwgh]joy; fhh]dpah my;yJ byd;!; ghjppg]gilfpwJ.
- bghUspd; xU gFjpapy; ,Ue;JtUk; xspf;fjph]fs; tpHpj; jpiuf;F Kd;dhy; iknahgpah nghd;Wk;/kw;w gFjpapy; ,Ue;J tUk; xspf;fjph]fs; tpHpj; jpiuf;F gpd;dhy; iQg]gh] bkl]nuhgpah nghd;Wk; Ftpf;fg]gLfpd;wd.
- fz;qf;F Kd; g[wg]gFjp khWg]L fhzg]gLk; byd;R itj;J rhp bra;ayhk;.

(<) gpul;ignahgpah :

- taJ Kjph]r]rpahy; fz;zpd; byd;!; fodkhtjpdhYk;/ kPs;jd;ik FiwtjpdhYk; tpHp Vw;gikt]j; jd;ikapy; Fiwt[Vw;gLfpwJ.
- ,f;Fiwgh]jil **Ftp byd; rpd;** \yk; rhp bra;ayhk;.

ghh]itf; fzf;fPL:

- fz;zpd; ghh]it jd;ikia mwpe;J mjw;F Vw;w fz;zhofs; my;yJ fhd;blf;l] byd;Rfis cgnahfpj;Jg] ghh]it Fiwia epth]j;jp bra;ayhk;.

8.rpWePh] cUthFk; Kiwapid tpthp.

- rpWePh] cUthf;fj;ppy; eilbgWk; epfH;t[fs; FshkUyhh] tofl]Ljy;/ FHy;fspy; kPz;Lk; cwpQ;rg]gLjy;/ FHy;fspy; Ruj;jy; MFk;.

1.FshkUyhh] tofl]Ljy; :

- FshkUyhh] gFjpa[k;/ bgskhdpd; fpz;zKk; ,ize;j gFjp khy;gp\$pad; cWg]g[**caphpa tofl]oahf** bray;gLfpwJ.

tofl]Ljyypd; jd;ik:

- ,jaj;jpypUe;J btsptUk; bkhj;j ,uj;jj;ppy; Vwf;Fiwa 20 - 25% mst[,uj;jj;ij rpWePufk; bgw;Wf;bfhs;fpwJ.
- FshkUyhh] je;Jfpfspy; Vw;gLk; cah] ,uj;j mGj;jk; tofl]LjYf;F fhuzkhfpwJ.
- je;Jfpfspy; fhzg]gLk; jput mGj;jk; 75 mm Hg . ,jw;F vjpuhf bray;gLk; mGj;jk; 50 mm Hg. vdnt Kothd mGj;j tpist[25 mm Hg tofl]LjYf;F fhuzkhfpwJ.
- khy;gp\$pad; nfg]Nypd; cs; tof;fg]g]l jputk; **FshkUyhh] tojputk;** MFk;.
- FshkUyhh] tojput mst[125 kp.y. / epkplk; MFk;.

2. FHy;fspy; kPz;Lk; cwpQ;Rjy; :

- rpWePh; cUthFjypy; ,J ,uz;lhk; epiy MFk;.
- FSf;nfh!;/ nrhoak;/ fhy;rpak; nghd;w kpf ,d;wpaikahj bghUs;fs; bray;kpF flj;jy; \yk; mjpf mst[cwpQ;rg]gLfpd;wd.
- a{hpah/ a{hpf; mkpyk; nghd;w njitaw;w bghUs;fs; vspa CLUty; \yk; Fiwe;j msnt cwpQ;rg]gLfpd;wd.
- fphpnal]jodpd; nghd;w bghUs;fs; KGikahf cwpQ;rg]glhky; btspnaw;wg]gLfpd;wd.

(m) mz;ik RUz;l FHy;fspy; kPz;Lk; cwpQ;Rjy; :

- ePh]/ FSf;Fnhf!;/ nrhoak; gh!;ngl] kw;Wk; igfh]gndl] nghd;wit cwpQ;rg]gLfpd;wd.
- ,g]gFjpapy; rpWePh] xj;j mlh]t[jd;ik cilajhf fhzg]gLk;.

(M) bQd;ypapd; tistpy; kPz;Lk; cwpQ;Rjy; :

- bQd;ypapd; fPHpwq;F FHy; kpf bky;ypajhf cs;sjhy; nrhoak; vspjhf CLUtp cs; bry;fpwJ. ,g]gFjpapy; rpWePh] cah] mlh]t[epiy milfpwJ.
- bQd;ypapd; nky; Vwpr] bry;Yk; FHypy; ,Ue;J nrhoak; btspr] bry;tjdy; rpWePhpd; mlh]t[epiy Fiwe;J bfhz;L bry;fpwJ.

(,) nra;ik FHypy; kPz;Lk; cwpQ;Rjy; :

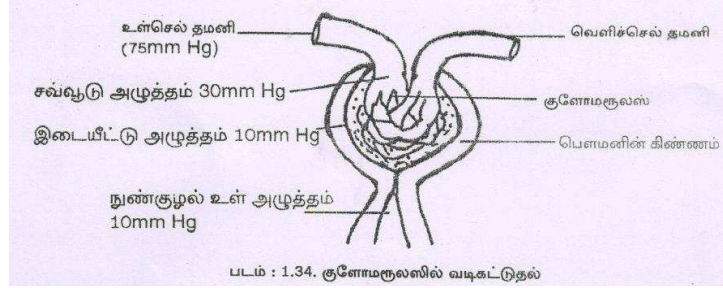
- nra;ik RUz;l FHypy;/ bray;kpF flj;jy; \yk; nrhoaKk;/ vsa flj;jy; \yk; ePUk; flj;jg]gLfpd;wd. ,g]gFjpapy; rpWePh] xj;j mlh]t[jd;ikia milfpd;wJ.

(<) nrfhpf;Fk; FHypy; kPz;Lk; cwpQ;Rjy; :

- nrfhpf;Fk; FHypidr] rpWePh] mila[k; nghJ ADH Qhh]nkhdpd; braypdhy; ePh] cwpQ;rg]gLfpwJ. ,g]gFjpapy; rpWePh] cah] mlh]t[jd;ikia milfpwJ.
- cUthd rpWePhpy; 96% ePh]/ 2% a{hpah kw;Wk; 2% tsh]rpij khw;wf;fHpt[fs; fhzg]gLfpd;wd.

3.FHy;fspy; Ruj;jy; :

- tofl;Ljypy; ,Ue;J jtpa cYf;Ff; nfl tpistpf;Fk; fHpt[g] bghUs;fs;/ FHy;fspd; Rthpd; tHpnay;bray;kpF flj;jy; Kiwapy; btspnaw;wg]gLfpd;wd.
- ,J rpWePh] cUthFjypd; filrpepiy MFk;.



9. khjtplha; RHw;rpapid tpthpf;ft[k;.

khjtplha; RHw;rp :

- tsh]r]rpa[w;w bgz;zpd; thH;tpy; khjtplha;r] RHw;rp vd;gJ ,uj;jg]nghf;F Jtq;Fk; epiyapyUe;J kPz;Lk; ,uj;jg]nghf;F Vw;gLk] fhyk; tiu ePz;oUf;Fk;. ,dg]bgUf;fg] ghijapd; tHpahf ,uj;jk; btspg]gLjy; ,r]RHw;rpapd; Kf;fpa epfH;thFk;.

1.@ghypf;Fyhh] epiy (m) bgUf;fepiy :

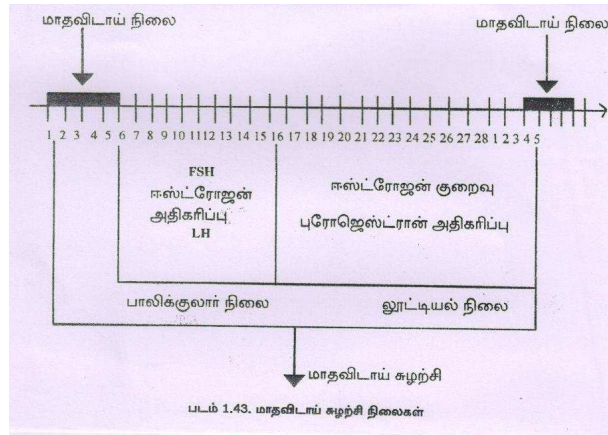
- 5 Kjy; 14 eh]fs;.
- FSH vdg]gLk; @ghypf;fps; J}z;Ljy; Qhh]nkhdy; ,e;epiy Jtq;Fk;.
- ,e;epiyapy; mz;lr]Rug]gpapd; @ghypf;fps;fs; mstpy; bghpjhf tsUk; ntisapnyana <!;onuh\$d; Qhh]nkhida[k;/ rpwpa mstpy; g[nuhb\$!;ouhd; Qhh]nkhida[k; Ruf;fpwJ.
- <!;onuh\$d; J}z;Ljyhy; vd;nlhbkl]hpak; vDk; fUg]ig cl]Rth] g[j;jhf;fk; bgWk;.
- ,e;epiyapd; Kotpy; FSH epd;WtpLk;.

2.ypa{I}oay; epiy (m) Kd; khjtplha; epiy :

- 15 Kjy; 28 ehI]fs;. ,e;epiy khjtplha; RHw;rpapd; 14 tJ ehspy; Jtq;Fk;.
- LH Qhh]nkhdpd; tpisthy; fpuh@gpad; ghypf;fps; cile;J mz;l mq btspnaWk;.
- mz;l mq btspnawpagpd; fhypahd ghypf;fps; fhh]g!; ypa{I}oak; vDk; epiyaw;w ehskpy;yhr] Rug]gpahf khWjy; bgWk;.
- fhh]g!; ypa{I}oak; mstpy; bghpjhf g[nuhb\$!;onuhd; Qhh]nkhidapk;/ rpwpjst[<!;onuh\$d; Qhh]nkhida[k; Rue;J tpLk;.
- mz;l mq bgw;Wg] guhkhpf;Fk; tifapy; vd;nIhbkI]hpak; khWjy; mila[k;.
- fUt[w;w bgz;zpd; fh]g]gepiyiag] ghJfhg]gjpYk;/ fUg]igapd; RUq;fp tphpjy; jd;ikia epWj;jp itg]gjpYk; g[nuhb\$!;ouhd; Kf;fpag] gq;fhw;WfpwJ.
- fUt[Wjy; ,y;iybadpy; fhh]g!; ypa{I}oak; ,Wjpapy; Kw;wpYkhf mHpe;J tpLk;.

3.khjtplha; epiy (m) bkd;!;LUty; epiy:

- 1 Kjy; 5 ehI]fs;. g[nuhb\$!;onuhd;/ <!;onuh\$d; Qhh]nkhid; Rug]g[Fiwe;J tpLk;.
- ,e;epiyapy; vd;nIhbkI]hpak; fUg]igapd; cl]RthpypUe;J chpe;J btspnaw;wk; bgWk; nghJ mjpf mst[,uj;jg]nghf;F Vw;gLk;.
- ,jd; Kotpy; fhh]g!; ypa{I}oakhdJ fhh]g!; my;gpdf;!; vd;w tLthf mika[k;.



5. Rw;Wr] NHy; mwptpay;

1. fz;zho tPL tha[f;fs; kw;Wk; mtw;wpd; Rw;Wg]g[w ghjppg]g[fs; gw;wp vGJf.

fz;zho tPL tpist[:

- tsp kz;lyj;jpy; cs;s rpy tha[f;fs; Nhpapd; btg]gj;ij cwpQ;rp mg]gona itj;Jf; bfhs;tjhy; g{kppad; btg]gepiy cah]fpwJ. ,J fz;zho tPL tpist[MFk;. ,jw;F fhuzkhd tha[f;fs;; fz;zho tPL tha[f;fs; MFk;.

fz;zho tPL tha[f;fs; :

1. fhh]gd; - il - Mf;i!L:

- kpf mjpf mstpy; fhzg]gLk; fz;zho tPL tha[fhh]gd; - il - Mf;i!L MFk;.

- vhpkiy btøj;jy;/ tpyq;Ffspd; Rthrpj;jy;/ fhpk bghUI]fis vhpj;jy; kw;Wk; mit kl]fp mGFjy; nghd;w fhuzq;fshy; fhh]gd; il Mf;!L btspaplg]gLfpwJ.
- kdpjh]fs; jk; bray;fshy; tha[kz;lyj;jpy; kpf mjpf mstpy; fhh]gd; il Mf;!il btspnaw;Wfpd;wdh].

2. **kPj;njd; :**

- fhh]gd; - il - Mf;!il tpl 20 klq;F mjpfkhf btg]gj;ij vLj;Jf; bfhs;fpwJ.
- epyf;fhp/ ,aw;if tha[kw;Wk; vz;bza; Mfpait cw;gj;jp bra;ag]gLk;ngnhnj my;yJ ,itfs; vLj;Jr] bry;yg]gLk;njhnjh kPj;njd; btspnaw;wg]gLfpwJ.
- Fg]jgfs; fhzg]gLk; fhpk fHpt]fs; mGFk; nghJk;/ gRkhLfs; czt]g bghUI]fissr] brhpf;Fk; nghJk; kPj;njd; btspnaw;wg]gLfpwJ.

3. **iel]u!; Mf;!L :**

- fhh]gd; - il - Mf;!il tpl 300 klq;F mjpfk; btg]gj;ij cwpQ;Rk;.
- g[ijgot vhpbg]hUI]fis vhpj;jy; kw;Wk; gz;iz kz;iz cGjy; nghd;w epfH;t]fs; \yk; iel]u!; Mf;!L btspnaw;wg]gLfpwJ.

4. **gpw fz;zho tPL tha[f;fs; :**

- mYkdpaj;ij cUf;Fk; nghJ btspg]gLk; **bgh]g[ShpndI] TI]Lg]bghUI]fs;.**
- Eiubkj;jifs; jahhpf;Fk; nghJ cUthFk; **iQonuhfhh]gd;fs;.**
- Fsp]rhjdg] bgl]ofspy; ,Ue;J btsptUk; **Fnshnuh g[Snuh fhh]gd;.**
- 2000 Mk; Mz;oy; fz;Lgpof;fg]gl]l tha[**oiug[Snuhkipjy; ry;gh] bgd;I]lhg[Siul].**

Rw;Wg]g[w ghjpg]g]fs; (tpist]fs;)

1. fly;fs; btg]gk; miltjhy;/ fly; ePh] kl]lk; caUk;. ePh] kl]l cah]tphdy; gy ehLfspd; gy gFjpf; ePhy; \H;fyhk;.
2. rpy ,lq;fspy; gUf; fhyq;fspd; mst[nkYk; ePof;fyhk;.
3. btg]gkhd cyfk;/ bghJthf mjpf <ug]gj;ij cz;lhf;fp mjpf kiH bghHpit Vw;gLj;Jk;.
4. g[ay;fs; mjpf tYg]bgw;W mof;fo cz;lhf;Fk;.
5. cyf;pd; rpy gFjpf; ghlytdk; nghy; Mfyhk;.
6. fhw;W jPtukhf tPRk;. Nwhtspfs; kpft[k; fLikahf tPRk;.
7. thdpiya Kd;djhnt rhpahf; fzpf;f Koahky; nkYk;/ nkYk; fLikahd tPRk;.
8. jPq;Fhpg] g[r]rpfshYk;/ jhtu neha;fshYk; gaph]fSk; fhLfSk; ghjpf;fg]gLk;.
9. tpyq;Ffs; JUtq;fs; neh;fpa[k; / cah]e;j ,lq;fis neh;fpa[k; ,lk; bgaUk;.
10. rpytiff; fhLfs; kiwe;J nghFk;.

cyfshtpa btg]g cah]jif; fl]Lg]Lj;Jk; Kaw;rpfs; :

1. g[j]pjh]f kuq;fisa[k;/ jhtuq;fisa[k; bgUkstpy; tsh]f;f ntz;Lk;.
2. **fhh]gd; jdpikg]g]Lj;jy; :** fhh]gd; il Mf;!il MH;flypnyh my;yJ vz;bza; fpzWfspnyh my;yJ rpy ePh] epiyfspnyh nehpihahfr] brYj;jp/ mjpyUe;J jg]gp;f tPlhky; jdpikg]g]Lj;Jy; MFk;.
3. fz;zho tPL tha[f;fis btspnaw;whj khw;W vhpbg]hUI]fshd Nhpa rf;jp/ fhw;whiy] rf;jp kw;Wk; iQ]ju\$d; nghd;w vhpbg]hUI]fis gad;gLj;Jy;.

2. cyfshtpa btg]g cah]tpdhy; Vw;gLk; tpist]fisa[k; mijf; fl]Lg]g]Lj;Jk;

Kaw;rp]fisa[k; tpthp.

cyfshtpa btg]g cah]t[:

- cyfshtpa btg]g cah]t[vd;gJ g{kpapd; ruhrhp btg]g mstpy; Vw;gLk; mjpgfpg]ig Fwvf;Fk;. ;jd; tpistha;j; j]g btg]g epiyapy; khWjy;fs; Vw;gLk;.

cyfshtpa btg]g cah]tpdhy; Vw;gLk; tpist[fs; :

(tpdh vz;. 1 - y; cs;s Rw;Wg]g[w ghjpg]g[fs; my;yJ tpist[fs;)

fl]Lg]gLj;Jjy; :

(tpdh vz;. 1 - y; cs;s fl]Lg]gLj;Jk; Kaw;rpfs;).

3. Xnrhd; xU ,aw;ifahd Nhpaj;jil :

- NhpapypUe;J btsdnaWk; kpd;fhe]jg]g]ilapy; fhzg]gLk; g[w Cjhf;fjph]fs; o.vd;.V nrj]gLj;Jk;.
- Xnrhd; ,y;iy vd;why;/ g{kpia te;jila[k; g[w Cjh fjph]fspd; mst[caph]fs; aht[k; mHpe;J tpLk; mst[f;F mjpgkfh ,Uf;Fk;.
- !;]nul]nlh!;@gpahpy;/ Mf;!p\$d; kPJ Nhpa xsp bray;gl]L/ bhl]h]e;J rpwpjst[Xnrhd; cw;gj;jpahf;bfh;nl cs;sJ. mnj rkak; ,aw;if epfH;t[fs; Xnrhd; rpjif;fg]gLfpwJ.
- kdpjdpd; jw;fhyr] bray;ghLfs; midj;J ,aw;if rkd;gh]jila[k; khw;wptp]ld.

Xnrhd; bghj;jy; :

- tha[kz;lyj;jpy; Xnrhd; glyk; kpft[k; mlh]t[Fiwe;J bkypjha;f; fhzg]gLk; gFjp Xnrhd; bghj;jy; vdg]gLfpwJ.

Xnrhd; Fiwg]g[bghUI]fs; :

- Fnshnuh g[Snuh fhh]gd;fs; my;yJ @gpuhd; tha[f;fs;/ g[nuhkpd; TI]Lg] bghUs;fs; my;yJ Qhnyhd;fs;/ iel]u\$d; Mf;!Lfs; kw;Wk; kpjy; g[nuhkpl] Mfpait bgUk;ghYk; fhzg]gLk; Xnrhd; Fiwg]g[bghUI]fs; MFk;.

mz;lhh]of; gFjpapy; Xnrhd; ,Hg]gpw;Ff; fhuzq;fs; :

- tha[kz;lyj;jpy; cUthFk; Fnshhpd; kw;Wk; g[nuhkpd; TI]Lg] bghUI]fs;.
- kdpjr] bray;ghLfs; cz;lhf; Fnshnuh g[Snuh fhh]gd;fs;.

Xnrhd; ,Hg]gpdhy; Vw;gLk; tpist[fs; :

- **jhtuq;fspy;** - tpisr]riyg] ghjp;Jf; fhLfs; cw;gj;jpaa[k; ghjpf;Fk;.
- **tpyq;Ffspy;** - kPd; FQ;Rfisa[k; rpW tpyq;Ffisa[k; ghjpf;Fk;.
- **kdpjdp;** - njhy; epwkpg] g[w;Wneha;fs;/ vhpjpkh/ fz;ghh]it nfshWfs;/ fz;g[iu neha;.

Xnrhd; ,Hg]ig jLj;jy; :

1. Fnshnuh g[Snuh fhh]gd;fSf;F gjpyhf iQI]nuh Fnshnuh g[Snuh fhh]gd;fs;/ iQI]nuhfhh]gd;fs;/ mk;nkhdpah my;yJ ePh] kw;Wk; ePuhtpia gad;gLj;jyhk;.
2. Xnrhd; gly ,Hg]gpw;Ff; fhuzkha; ,Uf;Fk; bghUs;fspd; cw;gj;jp/ gad;ghL kw;Wk; btspnaw;wk; Fiwf;fg]glntz;Lk;.
3. Fsp]rhjdg] bgl]ofs; kw;Wk; Fsp]rhjdg;fisg] gGJ gh]g]g]py; tiuKiwfis Vw;gLj;j ntz;Lk;.
4. btspnaw;Wk; Fsp+l]ofisf; ifg]gw;wp kPz;Lk; gad;gLj;j ntz;Lk;.
5. Nhpa fjph]fspypUe;J jw;fhj;Jf; bfhs;s ntz;Lk;.

4. ,lh]ghL; tpistpf;Fk; fHpt[fs; vt;thW nkyhz;ik bra;ag]gLfpwJ >

,lh]ghL] jUk; fHpt[fs; :

- Mapuk; Mz;Lfs; MapDk; mg]gona ,Ue;J Mj;ij tpistpf;Fk;.

- fjph]tPr]Rf; fHpt[fs;/ cyhff; TI]Lg] bghUI]fs;/ fhpkf; fiug]ghd;fs;/ mkpy m!;bg!;lh!;/ fhpk raidLfs; kw;Wk; neha; gug]g[k; kUj;Jtkidf; fHpt[fs; ,lh]ghL jUk; fHpt[fs]hFk;.
1. **epyj;jpy; epug]g]y; :**
 - ,uhqtk; bjh]ghd ,lh]ghL jUk; fHpt[fs;/ fjph]tPr]Rf; fHpt[fs; ,k;Kiwapy; ghJfhg]ghfg] g{kpf;F moapy; nrkpf;fg]gLfpd;wd.
 - kpf MHkhd gJq;F FHpfspy; kpf mjpf mstpy; fjph]tPRk; jpwd; bfhz;l fHpt[fs; nrkpf;fg]gLfpd;wd.
 - epyj;joapy; cs;s FHpfSf;Fs; gy;ntW ntjgg]bghUI]fs; xd;Wld; xd;W fye;J FWf;F tpidapy; <Lgitplhky;/ mit jdpj;jdpna nrkpf;fg]gLfpd;wd.
 2. **MH;fpzW gha;r]ry; :**
 - ,k;Kiwapy; epyj;jo ePUf;Fk; fPnH MH;f;fpzWfs; njhz;lg]gLk;.
 - ,f;fpzw;wpy; ,lh]ghLfs; jUk; jputf;fHpt[fs; brYj;]g]gLfpd;wd.
 - ,f;fHpt[fs; epyj;jo ePUld; fye;J tplhky; ghJfhf;f ntz;Lk;.
 3. **nkW;gug]gpy; \oitj;jy; :**
 - rpwpjst[ntjpa; fHpt[fs]f; bfhz;l Vuhskhd ePiuf; ifahs ,k;Kiw gad;gLfpwJ.
 - jiuapy; rpW Fsq;fs; bt]lg]gl]L mtw;wpDs; jputf;fHpt[fs; bfh]lg]gLfpd;wd.
 - jplf;fHpt[fs; jiug]gug]gpy; goe;J tpLfpd;wd. ePh] Mtpahfp tpLfpwJ.
 - Fsj;jpd; jiug]gFjp ePh]f;frpt[Vw;glhtz;zk; ed;F g{rg]glntz;Lk;.
 4. **vhpj;Jr] rhk;gyhf;fy; :**
 - ,lh]ghL jUk; caphpa kUj;Jtf; fHpt[fs; vhp;fg]gl;Lr] rhk;gyhf;fg]gLk;.
 - kdpj cly; fHpt[fs;/ J]f;fp vwpag]gLk; kUe;Jfs;/ er]Rj;jd;ik bfhz;l kUe;Jfs;/ ,uj;jk;/ rPH;/ tpyq;Fspd; fHpt[fs; kw;Wk; caphpa bjhHpy;E]gf; fHpt[fs; nghd;w **caphpa kUj;Jtf; fHpt[fs; ,k;Kiwapy; mHpf;fg]gLfpd;wd.**
 5. **caphpaj; jPh]t[:**
 - Ez;qaphpfs;/ jhtuq;fs; nghd;w caphpag] bghUI]fisf; bfhz;L Rw;Wr] NHiy Rj;jk; bra;tJ jhd; **caphpaj; jPh]t[MFk;.**
 - ,aw;ifapnyna fhzg]gLk; ghf;Ohpah kw;Wk; Ez;qaphpfs;/ fd cnyhfq;fs; nghd;w fHpt[fs]r] rpjif;fnth my;yJ cwpQ;rf; bfhs;snth my;yJ mj; er]Rj;jd;ikiaf; Fiwf;fnth bra;fpd;wd.
 - **\$pg]uy;yh gpa{nrhpak; vd;w jhtuj;jpd; \yk; raidLfs; rpjif;fg]gLfpd;wd.**
 - **Ng]gh]gf; vd;W miHf;fg]gLk; Nnlhnkhdh!; ghf;Ohpah vz;bza; fHpt[fs] rpjif;fpd;wd.**
5. **,lh]ghlw;w jplf;fHpt[fs; nkyhz;ik gw;wp xU fl]Liu vGJf.**
1. **Rfhjhu epyf;Ftpg]g[:**
 - epyf;Ftpg]g]f; fHpt[fs] ,aw;iff; FHpfspnyh my;yJ njhz;lg]gl] gs;sq;fspnyh Ftpj;J/mjw;F nky; Rj;jkhd kzy; epug]gg]gLfpwJ.
 - Rfhjhu epyf;Ftpg]g]fs; kPJ g{q;fhf;fs;/ tpiahl]L ikjhdq;fs; nghd;w bghGJnghf;Fmk;r;q;fis cUthf;fyhk;.
 2. **vhpj;Jr] rhk;gyhf;fy; :**
 - vhpaf;Toa jplf;fHpt[fs; vhpj;Jr] rhk;gyhf;fg]gLfpw;d. rpytif vhpahj fHpt[fs; cUf;fg]gLfpd;wd.
 - Mjpf btg]gk;/ bjhW;Wneha;f; fpUkpfis mHpg]gjhy; ,J xU rpwe;j KiwahFk;.

3. **kPz;Lk; gad;gLj;Jjy; kw;Wk; kWRHw;rp Kiwfs; :**

- ug[jgh]/ fz;zho/ jhs; kw;Wk; Jz;L cyhfq;fs; nghd;wit fHpt[fspypUe;J jdpna gphpj;bjLj;J kPz;Lk; gad;gLj;Jtjw;F kWRHw;rp vd;W bgah].
- **fHpt[j; jhs; : 54%** kPz;Lk; gad;gLj;jyhk;. fHpt[j;jhis kPz;Lk; THhf;fp ml]ilbg]ofs; nghd;w bghUI]fshfnth my;yJ ed;F fiuj;J bry;Ynyh!; kpd;flj;jhg] bghUI]fshfnth my;yJ bjhG cukhfnth khw;wyhk;.
- **fz;zhofs; : 20%** kPz;Lk; gad;gLj;jyhk;. fz;zhofis ed;F behUf;fp/ bghoahf;fp g[Jf;fz;zho rhkhd;fisj; jahhpf;fyhk; my;yJ me;j behWf;fiy fl]Lkhd gzpfSf;fhd fhq;fphPI/ Ml;ghy;l] nghd;wit jahhpf;f gad;gLj;jyhk;.
- **gphs!;of; : 2. 2%** kPz;Lk; gad;gLj;jyhk;. gpsh!;of;if cUf;fp eilghij tphpg]g[fshft[k;/ ePh]gha;r]Rk; FHha;fhsft[k;/ XLfs; bra;at[k;/ gpsh!;of; ml]ilfs; bra;at[k; gad;gLj;jyhk;.
- **cnyhfq;fs; :: 39%** cUf;fp kPz;Lk; gad;gLj;jyhk;.
- **czf[f;fHpt[fs;/ gz;izf; fHpt[fs; : bjhG cukhfg; gad;gLj;jyhk;.**
- **giHa Jzpf; : fhfpj jahhpg]gpy; gad;gLj;jyhk;.**
- **giHa lah]fs; : giHa lah]fis cUf;fp rhiyfs; nghlg] gad;gLj;jyhk;.**

6. **Mw;wy; beUf;fo vd;why; vd;d> mij jLf;f vLf;f ntz;oa eltof;iffs; ahit >**

Mw;wy; beUf;fo :

- mjpf kf;fs;bgUf;fk;/ ntfkhd efukakhf;fk; kw;Wk; bjhHpy; kakhf;fk; nghd;w fhuzpfshy; Mw;wy; beUf;fo Vw;gl]Ls;sJ. 2020 - Mk; Mz;Lf;Fs; jw;ngHJ cyfpy; cs;s bg]nuhyapaKk;/ ,aw;if vhptha[t[k; jPh]e;J tpLk; mghak; cs;sJ.

Mw;wy; beUf;foia j; jtph]f;f vLf;fntz;oa eltof;iffs; :

1. **vhpbgHUs; Efh]itf; Fiw]jy; :**

(m) jw;ngHJs;s fl]olq;fspy; btg]gj;jil bghUI]fis mikj;jy;/ njitahd khw;wq;fs;

Vw;gLj;Jjy; \yk; 33% Mw;wiw kpr]rg]gLj;juyhk;.

(M) nghf;Ftuj;Jr] rhjdq;fspd; vhpbgHUs; Efh]itf; Fiw]jy; Mw;wiw] nrkpj;jy;.

(.) rpwe;j jpwDs;s nghf;Ftuj;J thfdq;fisg] gad;gLj;Jjy;.

2. **g[jpa Mw;wy; tsq;fis cUthf;Fjy; :**

1. **fhw;W Mw;wy; :**

- kpd;rhuj;jpw;F MFk; cw;gj;jpr] bryt[kpft[k; Fiwt[. xU a{dp]ow;F 40 fhRfs; MFk;.
- Rw;Wr]NHYf;F vt;tpj ghjpg]g[k; ,y;iy.
- bjhlh]e;J kpd;rhuk; cw;gj;jpahtjhy; bra;ag]gLk; KjyPL tPzhtjpy;iy.

2. **g[tpbtg]g Mw;wy; :**

- ,aw;ifapnyna fhzg]gLk; btg]g ePh] Cw;Wfspy; ,Ue;J btspnaWk; ePuhtpia Mw;wyhfg] gad;gLj;JtJ g[tpbtg]g Mw;wy; MFk;.
- g[tpapd; cl]g[wj;jpy; / MHj;jpy; ghiwfs; btg]gk; 200 - 250⁰C vd;w mstpy; cs;sJ. ,g]ghiwfs; tiu MH;FHha;f; fpzWfs; njhz;lg]gl]L mjpf mGj;jj;jpy; ePh] gha;r]rg]gLfpwJ. ntW FHha;fs; \yk; ePuhtpahfg] g[tpg]gug]gpw;Ff; bfhz;L tug]gLfpwJ.

3. **rpwpa ePh]kpd; jpl]lq;fs; :**

- midj;J g[jpg]gpf;fty;y Mw;wy; tsq;fspy;/ kpft[k; kypthd/ ek;gf;jd;ik tha;e;jit.
- fhlytha;fs; / Xilfs; nghd;wtw;wpypUe;J Rw;Wg]g[wf; nL Vw;gLj;jhky; kpd; cw;gj;jp bra;ayhk;.

4. **bgUq;fly; Mw;wy; :**

- bgUq;fly; miyfSk;/ Xjq;fSk; VuhsKhd Mw;wiyf; bfhz;Ls;sd.
- bgUq;fly; Xjq;fspd; Mw;wy; g[Jg]gpf;f ty;yJ/ Rw;Wr]NHYf;F nFl tpistpf;fhJ.
- nfushtpy; cs;s **tpHpQ;rk;** kPd;gpo JiwKfj;ppy;/ ,e;jpahtpd; bgUq;fly; Mw;wypypUe;J kpd; jahhpg]g[bra;a[k; Kjy; Miy cUthf;fg]Ls;sJ. ,J Mz;Lf;F 150MW kpd;rhuk; cw;gj;jp bra;a[k;.

5. **Nhpa Mw;wy; :**

- Xt;btU tUIKk; NhpadplkpUe;J 5×10^{20} **fpnyh fnyhhp**Mw;wy; fpilf;fpwJ.
- cybfq;Fk; fpilf;ff;Toa/ Rw;Wr] NHiy khRgLj;jhj Mw;wy;.
- Xspr]nrh]f;if kw;Wk; fz;zho tPL tpist[Mfpa epfH;t[fspd; btspg]ghl]od; NH;epiy rkd;ghl]ilg] gukhkpf;f cjt[k;.
- epyf;fhp/ vz;bza; kw;Wk; tha[f;fspdhy; Vw;gLk; Rw;Wr]NHy; nFl ,jpy; Vw;gLtjpy;iy.

6. **caph]tha[my;yJ rhz vhptha[Mw;wy; :**

- caphpaf; fHpt[ffsf; fhw;ww;w Kiwapy; kl]fr] bra;tjd; \yk; ,t;thw;wy; bgwg]gLfpwJ. ,k;Kiwapy; kh]L rhz;jpd; vhpjpwd; 20% mjpfhpf;fpwJ.
- ,k;Kiwapy; fpilf;Fk; fhpk cuk; kh]L rhz;j;ij tpl 43% rpwe;jjhFk;.

7. **iQ]u\$d; - vjph]fhy Mw;wy; \yk; :**

- midj;J khw;W Mw;wy; tsq;fisa[k; xg]gpLk;ngH J iQ]u\$d; xU rpwe;j khw;W Mw;wy;.
- kdpjr] rKjhaj;jpw;Fj; njitahd midj;J Mw;wy; njitfisa[k; kypthft[k;/ jpwd;tha;e;jjhft[k; iQ]u\$d; epiwt[bra;a[k; vdf; fUjg]gLfpwJ.
- ,t;thw;wiy mstpd;wp/ Rw;Wr]NHy; ghjpg]gpd;wp cw;gj;jp bra;ayhk;.

7. ed;dPh] tsq;fs; gw;wpa[k; mjd; gw;whf;Fiwf;fhd fhuzq;fs; gw;wpa[k; fl]Liu vGJf.

ed;dPh] tsq;fs; : g{kpapy; fpilf;Fk; ePhpy; **3 rjtPjk;** jhd; ed;dPh].

1. **gdpkiy/ gdpf;fl]o/ btz;gdp :**

- g{kpapy; fpilf;Fk; 3 rjtPj ed;dPhpy; ehd;fpy; xU gq;F gdpkiyfspYk;/ gdpf;fl]ofspYk;/ btz;gdpapYk; mile;J flf;fpwJ.

2. **epyj;jo ePh] :**

- gdpkiyf;F mLj;J ed;dPh] mjpfkha;f; fhzg]gLtJ epyj;jo ePuhFk;.
- kz; mLf;Ff;fSf;F fPnH fhzg]gLk; jz;zPh] epyj;jo ePh] kl]lk; vdg]gLfpwJ.
- jz;zPh] milf;fg]Ls;s kzy;/ \$y;yp kw;Wk; ghiwg]gFjpf; **ePh]g]ghiwfs;** vdg]gLk;.

3. **Vhpfs; kw;Wk; Fsq;fs; ::**

- Mz;L KGtjk; jz;zPiuf; bfhz;oUf;Fk; bgUk; gs;sq;fs; Vhpfs; MFk;.
- jw;fhypfkhfnth/ epue;jukhfnth MHkw;w jz;zPh] gug]ig bfhz;IJ Fsq;fs; MFk;.

4. <u epyq;fs; :

- rfjp epyq;fs;/ nrWfs;/ rJg]g[epyq;fs; nghd;wita[k; xustpw;F ed;dPiug] bgw;Ws;sd.

ed;dPh] gw;whf;Fiwf;fhd fhuzq;fs; :

1. ,aw;if fhuzq;fs; :

- Fiwe;j mst[kiHbghHpt[/ btg]gf;fhw;W/ nghf;if khw;wp bfhs;Sk; MWfs; nghd;wit ,aw;if fhuzq;fs; MFk;.

2. kdpjf; fhuzq;fs; :

- kf;fs;bjhifg] bgUf;fk;/ tpiuthd efukakhf;fk;/ MLkhLfshy; mjpf nka;r]ry;/ gaphpLk; Kiwfs;/ jtwhd rhf;fil btspnaw;wk; nghd;wit kdpjf; fhuzq;fshFk;.

3. epyj;jo ePh] Fiwjy; :

- ntshz;ikf;Fk;/ tPI]L cgnahf;jpw;Fk; fp]lj;j]l] 40% rjtPjk; ed;dPh] gad;gLj;Jjy; kw;Wk; fpuhkg]g[wq;fspy; thGk; kf;fspy; 95% rjtPjj;pdh] jk] FoePh] njitf;F epyj;jo ePiuna gad;gLj;JtJk;/ ed;dPh] gw;whf;Fiwf;F fhuzhFk;.

4. fly; ePh] cl]g[Fjy; ::

- epyj;jo ePh] Cw;Wfs; twz;L tpLjtjhy;/ mjDs; fly;ePh] cl]g[Ffpd;wd.

5. XLk; MWfs; kiwjy; :

- mizfs; nghd;wit fl]lg]g]L XLk; MWfs; \H;fof;fg]gLtJ my;yJ ePz;l tskw;w fhy;tha;fshf khw;wg]gLjy; MFk;.

6. MtpahFjy;/ xGFjy; kw;Wk; tz;ly;gojy; :

- ,it ed;dPh] Vhp/ Fsk; kw;Wk; mizfspy; eilbgWfpd;wd.

8. ed;dPh] nkyhz;ik gw;wp fl]Liu tiuf.

1. nkf]jpy; J}t[jy; :

- cyh]gdp my;yJ bghl]lhrpak; mnahilL Jfs;fis ePh]nfhj;j nkfq;fs; kPJ J}tpdhy; rpy rkak; kiHg]bghHpt[Vw;gLk;.

2. cg]g[ePiu FoePuhf;Fjy; :

- jiyfPH; rt;t{L guty; Kiwapy; fly; ePhpd; cg]g]j;jd;ikia ePf;fp FoePuhf;Fjy;.
- tofl]ly; (Mtpahf;fp kPz;Lk; Fsph;tpj;jy;) Kiwapy; fly;ePiu FoePuhf;Fjy;.
- cg]g[ePiuf; FoePuhf;Fk; jpl]lk; kpft[k; bryt[Vw;gLj;Jk; jpl]lk; vdpDk;/ Jgha;/ Xkhd; kw;Wk; gQ;iud; nghd;w ehLfspy; ed;F bray;gLfpwJ.

3. mizfs;/ ePh]njf;fq;fs;/ fhy;tha;fs; :

- mizfs; nghd;w ePh]njf;fq;fs; \yk; ePiur]nrkpj;J vq;F ePh] njitnah mq;bfy;yhk; fhy;tha;fs;/ Ruq;fq;fs;/ jiuaof;FHha;fs; \yk; jz;zPiu gad;gLj;jyhk;.

4. ePh]g]gphpKfL nkyhz;ik :

- rpW mizfis cs;Sh] MI]fisg] gad;gLj;jpf; Fiwe;j brytpy; fl]otplyhk;.
- rpW mizfshy; cz;lhfK; Fsq;fs; ePiuj; njf;fpitg]g]ld; tdtpyq;F g[fyplq;fshft[k; mika[k;.

5. **kiHePh] nrfhpg]g[:**

- kiHePiu nehilahfnth my;yJ g{kpf;Fs; brYj;jpnah epyj;jo ePh]tsj;ijg] bgUf;Ftnj kiHePh]r] nrfhpg]g[vd]g]g]Lk;.
- ,k;Kiw \yk; epyj;joePh] kl]l mst[FiwtJ jLf;fg]gLfpwJ.
- flnyhug]Gfjpfspy; fly;ePh] epyj;jpw;Fs; g[FtJ jLf;fg]g]Lk;.

6. **tPLfspy; nrkpij;jy; :**

- ryit ,ae;jpuk;/ ghj;jpuq;fisf; fGt[k; ,ae;jpuq;fs;/ Fiwe;j ePiug] gad;gLj;Jk; Fspay; miwr]rhjdq;fs; nghd;wtw;why; ePh] tPzhtijf; Fiwf;fyhk;.

7. **bjhHpw;rhiyfspy; nrkpij;jy; :**

- ,ae;jpuq;fis Fsp]tpf;f cyh]f; Fsp]tpf;Fk; Kiw]fisg] gad;gLj;jp ePh] tPzhtijj; jLf;fyhk;.
- bjhHpw;rhiyf; fhpt[ePiur] Rj;jpfhpj;J/ KWRHw;rpapy; <Lg]l;jp kPz;Lk; gad;gLj;jyhk;.

8. **ePiu nrkpg]gjpy; xU jdpkdpjdpd; gq;F :**

- Fspf;f cgnahfg]gLj;Jk; ePhpd; msitf; Fiwf;f ntz;Lk;.
- fh]f]fisa[k;/ ,Urf;fu thfdq;fisa[k; mof;fo fGtf;TlhJ.
- Fiwe;j ePiug] gad;gLj;Jk; Fspf;Fk; rhjdq;fisa[k;/ fhptiwr] rhjdq;fisa[k; gad;gLj;jyhk;.

9. **tWik gw;wp xU bjhFg]g]j; jUf.**

tWika[k; Rw;Wr]NHYk; :

- tWik vd;gJ Fiwe;j]r]r tsk; my;yJ tUkhdk; ,y;yhj]pUj;jy; MFk;.
- kdpjj; njitf]F mtrpakhd rj;Jzt[/ cilfs;/ tPL/ Rj;jkhd ePh] kw;Wk; Rfhjhuj; njitfs; ,y;yhj]pUj;jy; tWikahFk;.
- tsUk; ehLfshd Mg]g]p]f;fh/ Mrpah/ yj;jPd; mbk]p]f;fh/ fpHf;F Inuhg]gh nghd;w ehLfspy; cs;s kf;fs; czt[/ ciwtp]k; kw;Wk; gpw njitf]Sf;fhf thLf]pd;wdh].
- mbk]p]f;fh/ fd]h/ \$g]ghd;/ nk]w;F Inuhg]g]pa ehLfspy; cs;s ViH kf;fs; rj;Jzt[f; FiwghL/ kdneha; mGj;jk;/ nghij kUe;Jfshy; gh]p]f;fg]gL]f]pd;wdh].
- kdp]h]f]spd; thH;f;iff;nf n]l]hf mika[k; nk]h]k]hd tWik/ **KGikahd tWik** vd;W miHf;fg]g]Lk;.
- kw;w cyf ehLf]s]d; xg]gp]Lk;ng]hJ Fiwe;j tsk; my;yJ tUkh]d;j]f; bf]h]z;l xU rK]h]ak; my;yJ eh]l]od; epiyf;Fj; **bjh]h]g]p]ay]hd tWik** vd;W bgah].

tWika[k; Rw;Wr]NHy; gpur]r]pidf]Sk; :

- gy ,lq;f]spy; kf;fs;bjhifa[k;/ tWika[k; ,aw;if tsq;fs; kP]Jk;/ Rw;Wr]NHy; kP]Jk; bgUk; jhf;f]j; cz;lhf;f]pa[s;sd.
- cyf]pd; gy gh]f]q;f]spy; Rw;Wr]NHy; rPh]n]f]L tWikf;f]hd xU Kf;f]pa fhuzphaf mik]f]pw]J.
- fhL]fs;/ epyk;/ fh]w;W kw;Wk; ePh] Mf]pa ,lq;fs; rPh]n]f]L milt]j]hy; kf;fs; bg]h]p]Jk; gh]j]p]f;fg]gL]t]j]hy; tWik Vw;gL]f]pw]J.

tWikiar] rhp]bra;a[k; tH]p]fs; :

1. t]p]tr]haj;j]f; j]P]t]p]ug]g]L]j;J]jy;/ gRik]g]g]u]l]r]pia mj]p]f]hp]j;jy; nghd;w Kiw]fs; \yk; jd;dpiwt[mil]jy;.
2. ePh]g]g]p]h]p]K]f]L nky]h]z;ik \yk; tsk]w;w epy]q;fis tsK]s;s epy]q;f]sh]f kh]w;W]jy;.
3. j]P]q;F]ap]h]p]f]is mH]p]f;f/ caph]pa fl]L]g]gh]L Kiw]fis gsd;gL]j;J]jy;/ nt]j]pa g{r]r]p]f;bf]hy;yp]f]spd; gad;gh]l]il]f; Fiw]g]g]j]d; \yk; ePh] kw;Wk; epy khR]gh]l]il]j; j]L]j;jy;.
4. nti]y]tha;g]j]ig mj]p]f]hp]f;f/ g]l]j]pa bjh]H]pw;r]hi]yf]f]isa[k;/bjh]H]py; El]g]q;f]isa[k; Vw;gL]j;J]jy;.
5. tWik v]j]p]h]g]j]j; j]p]l]l]q;f]isa[k;/ r]f]g] gh]J]f]h]g]g]j]j; j]p]l]l]q;f]isa[k; bray;gL]j;J]jy;.

6. mjpf mstpy; Muk;gr] Rfhjhu epiyaq;fSk;/ kUj;JtkidfSk;/ iftplg]gl] kw;Wk; neha[w;wth]fSf;F mdhij tpLjpfSk; mik;jy;.
7. FLk;gf;f]Lg]ghL Kiwfisf; fLikahfr] bray;gLj;Jjy;.

10. caphpa gy;tifik gw;wp xU fl]Liu tiuf.

caphpa gy;tifik:

- caphpag]gy;tifik vd;gJ epyk;/ fly;/ ed;dPh] vd midj;Jr] NH;epiy kz;lyq;fspy; thGk; caphpdq;fspy; fhzg]gLk; ntw;Wik kw;Wk; NH;epiy kz;lyq;fspd; ntWgl]l jd;ik vdg]bghUs; bfhs;syhk;.
- caphpag]gy;tifik/ kugpag] gy;tifik/ rpw;wpdg] gy;tifik kw;Wk; NH;epiy kz;lyg] gy;tifik vd \d;W tifg]gLk;.

caphpag] gy;tifik Fiwtjw;fhd fhuzq;fs; :

,aw;iff; fhuzq;fs; :

- ,Jtiu g{kpapy; thH;e;j rpwg]gpdq;fspy; 99% mHpe;J tpl]ld vd;gijg] g[iig]got Ma;t[fs; bjspt]gLj;Jfpd;wd.
- 250 kpy;ypad; Mz;LfSf;F Kd;/ bgh]kpad; fhy;jpy; Vw;gl]l xU nguHtpd; fhuzkhff; flypy; thH;e;j caphpfspy; \d;wpy; ,uz;L gq;Fk;/ midj;Jj; jhtu kw;Wk; tpyq;F FLk;gq;fspy; ghjpa[k; mHpe;Jtp]ld.

kdpjdhy; Vw;gLk; mHpt[:

- ,aw;iff; fhLfs; gz;izfshft[k;/ tPLfshft[k;/ filfshft[k;/ bghGJnghf;F ,lq;fshft[k;/ bjhHpw;rhiyfshft[k; khw;wg]gLfpd;wd.
- xU fhL mHpf;fg]gl]lhy;/ mijr] rhh]e;J thH;e;j kw;w midj;Jj; jhtuq;fSk;/ tpyq;FfSk; ghjpf;fg]gLfpd;wd my;yJ mHpe;J tpLfpd;wd.

caphpag] gy;tifik ghJfhg]gpd; Kf;fpaj;Jtk; :

1. tprhak;/ ePh]thH; caphp tsh]g]g/ tpyq;Fg] guhkhpg]g/ fh]Ltsk; nghd;witfSf;F caphpag] gy;tifik KJbfYk;g[nghd;wjhFk;.
2. g]jpa bjhHpy; tsh]r]rpf;F caphpa gy;tifik mog]gilahf mikayhk;.
3. vjph]fhy;jpy; g]Jtif czt[/ kUe;Jfs; kw;Wk; kdpjdpd; kw;w njitfis g{h]j;jp bra;a[k;.
4. mHpe;JtUk; ,dq;fisa[k;/ Xhpl epiy ,dq;fisa[k; fhg]ghw;w Koa[k;.

caphpa gy;tifik ,Hg]ghy; Vw;gLk; tpist[fs; :

- xU Fwpg]gpl] ,dk; capnuhL ,Ue;jhy; jhd; kw;w caphpdq;fs; mr]NH;epiy kz;lyj;jpy; capnuhL ,Uf;fKoa[k; vd;w epiyapy; me;jf; Fwpg]gpl] ,dk; mHpa nehplyhk;.
- btg]gf;fhLfspy; cs;s kuq;fspd; kfue;jr] nrh]f;iff;F kpft[k; mtrpakhdit Mh]f;fpl] njdPf;fs;. mit mHpe;jhy; mjd; bjhlh]r]rphaa; me;jr] NH;epiy kz;lynk mHpe;JtpLk;.

caphpa gy;tifik ghJfhg]g[:

1. cyfshtpa gy;tifik ghJfhg]g[:

- midj;J kdpjh]fSf;Fk; bghJthd ghuk;ghpar] brhj;jhff; fUjp caphpag] gy;tifikg] ghJfhf;fg]glntz;Lk;.
- caphpa kpifg]gy;tifik ,lq;fs; milhask; fhzg]gl]L mitfis ghJfhg]gJ Xh] Kd;Dhpik mspf;fg]gl ntz;oa Kf;fpa jpl]lk; MFk;.

2. njrpag] ghJfhg]g[; jpl]lq;fs; :

- ,e;jpa murhy; rl]lg]g{h]tkhd eltof;iffs;/ thHpl btspg]ghJfhg]g[kw;Wk; thHpl cs;ghJfhg]g[Kaw;rpfs; nk;w;bfhs;sg]gl]L tUfpd;wd.

- njrpa caphpag] gy;tifik bray;jpl]lj;ij cUthf;fpr] bray;gLj;jr] Rw;Wr]NHy; kw;Wk; fhLfSf;fhd kj;jpa muR mikr]rfk; Kaw;rpfis nkW;bfhz;Ls;sJ.
3. **caphpa kpF tsq;fis Vw;gLj;Jjy; :**
- ,jpy; xd;W my;yJ mjw;F nkW;gl] ghJfhf;fg]gl] ,lq;fSk;/ mijr] NH;e;Js;s epyq;fSk; eph]tjpf;fg]gl]L/ mjd; \yk; caphpfs; ghJfhg]g[k; ,aw;if tsq;fspd; bjhlh]e;j gad;ghLfSk; guhkhpf;fg]gLk;.

6. gad;ghl]L caphpay;

1. gad;ghl]od; mog]gilapy; fhy;eilfs; vt;thW tifg]gLj;jg]gLfpd;wd. Xt;bthd;wpw;Fk; ,U

cjhuzq;fs; jUf. ,dg]bgUf;fj;jpy; nkW;bfhs;sg]gLk; bjhHpy; EI]gq;fs ahit >

- gad;ghl]od; mog]gilapy; fhy;eilfs; \d;W gphpt[fshf tifg]gLj;jg]gl]Ls;sd. mitfs; fwit ,dk;/ ,U cgnahf ,dk; kw;Wk; ,Git ,dk; MFk;.

fwit ,dq;fs; :

- ,e;j tif gRf;fs; ePz;l eh]fSf;F mjpf ghiyf; bfhLf;Fk; jpwDs;sit.
- fhisfs; Fiwe;j ,Gf;Fk; jpwDs;sit.
- v.fh. fphp/ rpe;jp/ rhQpthy;/ ck;gsr]nrhp/ fud;Rtp!;.

,U cgnahf ,dq;fs; :

- ,t;tpd khLfs; ghy;fwit;Fk;/ ,Git ntiyf;Fk; gad;gLfpd;w jpwikahd khLfs;.
- bghJthf ,g]gRf;fs; epiwant ghy; bfhLf;fpd;wd. Fhisfs; jplfhj;jpukhdjhf/ epyk; cGjy;/ tz;o ,Gj;jy; nghd;w ntiyfSf;F gad;gLfpd;wd.
- v.fh. Qhpahdh/ Xq;nfhy;/ jhh]ghh]f;fh]/ fhq;bu\$;/ Qypf;fhh].

,Git ,dq;fs; :

- ,Git ,d khLfs; bgUk;ghYk; tz;o ,Gg]gJ/ epyk; cGtJ nghd;w ntiyfSf;F cjt]td MFk;.
- ,t;tpdg] gR mjpf]g] ghy; bfhLf;Fk; jpwDilajy;y.
- v.fh. mk;hpj;kQhy;/ fhq;nfak;/ khy;tp/ rphp.
- **fhy;eil ,dg]bgUf;fj;jpy; nkW;bfhs;sg]gLk; bjhHpy;EI]gk; :**

1. btsp ,df;fyg]g[:

- rpwpJ (my;yJ Kw;wpYk;) beUq;fpa / my;yJ bjhlh]gw;w caphpdq;fis fyg]g[w] bra;tJ btspapdf; fyg]g[MFk;.
- ,j;jifa ,dg]bgUf;fj;jpy; <LgLk; caphpfs;/ mitfspd; 4 Kjy; 6 jiyKiwapyhd Kd;ndhh]fspd; bghJj; bjhlh]ghd gz;gw;witfshFk;.

2. gpw ,df; fyg]g[:

- Kw;wpYk; gpw ,d caphpfs; xd;Wld; xd;W fyf;fr] bra;tj gpw ,df; fyg]g[[vdg]gLk;.
- rpy tpUk;gj;jFe;j g]jpa gz;g]fisf; bfhz;l g]jpa caphpfisa[k;/ mjpf tsh]r]rpa[k;/ tPhpaKk; cila Kjy; jiyKiwapyhd fyg]g[caphpfisa[k; njhw;Wtpf;fyhk;.

3. braw;if Kiw fUj;jhpj;jy; :

- Mz; ,dr] bry;fis/ bgz; ,dg]bgUf;f cWg]gpDs;/ ,aw;if Kiwf;F khwhfr] braw;if Kiwapy; ,ae;jpu cjtpahy; brYj;jpf; fUt[wr] bra;tjhFk;.
- nrfhpf;fg]gl] tpe;J jputj;jpd; xU gFjpapidr] mnj mlh]t[Indh my;yJ rw;W ePh]j;jy; bra;njh bgz; caphpapd; fUg]igapd; Edpg]gFjapDs; brYj;j]gLfpwJ.

gad;fs; :

1. ,dg]bgUf;f;j;pw;f;hf fhy;eilfis ke;jjahfr] nrh]f;f ntz;oaipj;iy.
 2. tpe;J jputq;fis/ neha;f; fpUkpfs; ghjpf;fhj tz;zk; bjhiyJ}u ,lq;fSf;F vLj;Jr] bry;yyhk;.
 3. fhakile;j my;yJ Kjph]r]rpaile;j khLfspkUe;J tpe;J bry;fs; bgwg]gl]L fUt[WjYf;F gad;gLj;jyhk;.
 4. kugpay; rhh]e;j mrhjuzg] gz;g[fnisah/ nehapd; fhuzj;jpidnah fz;lwpayhk;.
- 2. fhy;eilfs; fhzg]gLk; neha;fisa[k; mjidj; jLf;Fk; Kiwfig] gw;wpa[k; tpthp.**

- Mnuhf;fpakhd fhy;eilfspd; mwpFwpfs;/ bghypt[IDk;/ RWRWg]ghft[k;/ gsgsg]ghd njhiya[k; bfhz;L/ rhjhuzg] grpa[k;/ ey;y cwf;fKk; bfhz;L fhzg]gLk;.
- neha[w;w fhy;eilfspd; mwpFwpfs;/ Xa;tw;w epiy/ xU epiyapy; cliy itj;jpUf;fhj epyik kw;Wk; Fiwe;j ghy; fwf;Fk; jpwd;.

bjhw;W neha;fs; :

- ghf;Ohpa neha;fs; - Md;j;uhf;!;/ QPknu\$pf; brg]orPkpah/ kh!;ol]O!;/ fhrneha;.
- itu!; neha;fs; - kh]lk;ik/ fhy;tha; neha;/ hpd;lh]bg!;].

1. Md;j;uhf;!; :

- **BMd;j;uhrp!;** vd;w ghf;Ohpahthy; Vw;gLk;.
- **nehapd; mwpFwpfs; :**
 1. mjpf cly; btg]gepiy (41 – 41. 5⁰C)
 2. fGj;J/ kh]g]gf;fg]gFpfs; kw;Wk; ,Lg]g]g] gFjpfspy; typaw;w tPf;fk;.
 3. ,aw;ifj; Jthuq;fspd; tHpahf ,uj;jg] nghf;F.
 4. ghjpf;fg]gl] tpyq;F 10 Kjy; 36 kzpneuj;jpy; ,wj;jy;.

• **neha; fl]Lg]gLj;Jjy; :**

1. 6 khj taJ mile;jt[IDk;/gpd;dh] Mz;Lf;F xU Kiwa[k; jLg]g]r] brYj;Jjy;.
2. ghjpf;fg]gl] tpyq;fpid jdpikg]gLj;Jjy;.
3. khR mile;j ,Ug]gplj;jpd; khripid nghf;Fjy;.
4. ,we;j caphpfs; cliy kpf MHkhfg] g[ijj;jy

2. gR mk;ik :

- **itu!;** \yk; gut[k; nehahFk;.
- **nehapd;mwpFwpfs; :**
 1. Fiwe;j mirnghLk; jd;ik. 2. ghy;ko kw;Wk; ghy; fhk;g]fspd; tPf;fk;. 3. cly; btg]gepiy mjpfhpj;jy; 4. rUkk;/ ghy;ko/ ghy;fhk;g] nghd;w cWg]g]fspy; bfhg]g]sq;fs; cz;lhfjy; 5. ghy; Ruj;jypd;wp ,wf;f nehplk;.
- **neha; jLg]g] Kiw :**
 1. ghjpf;fg]gl] tpyq;fpidj; jdpikg]gLj;Jjy;.
 2. tpGq;Ftjw;Fk;/ brhpkhdj;jpw;Fk; Vw;w FiHe;j czt[mspj;jy;.
 3. fpUkpfs; ePf;Ffpd;w kUe;J fiurYid; Toa xj;jlq;bfhLj;jy;.

4. cg]g[ila ngjp kUe;jspj;jy; kw;Wk; rpWePh]g] nghf;fpid mjpfhjp;jy;.

5. fhaq;fisf; Fzg]gLj;Jk; fpUkpehrpd fspk;g[fig] gad;gLj;Jjy;.

3. g[w xl]Lz;zp neha;fs; :

- <f;fs;/ cz;zpfs;/ rpwpa g{r}rpfs;/ bjs;S g{r}rpfs; nghd;w g[w xl]Lz;zpfs; fhy;eilfspd; ,uj;jj;ij cwpQ;rp kiwKkkhf ghf;Ohpa/ itu!; neha;fis gug]g[k;.

4. mf xl]Lz;zp neha;fs; :

- bfhf;fp g[Gf;fs;/ cUisg]g[Gf;fs;/ ehlhg]g[Gf;fs; kw;Wk; j]ilg]g[Gf;fs; nghd;w mf xl]Lz;zpfs; fhy;eilfs; the;jp/ ngjp nghd;w cly; cghifis Vw;gLj;Jk;.

5. ghy; fha;r]ry; :

- mjpf ghy; cw;gj;jpapidf; bfhLf;Fk; gR kw;Wk; vUikfs; / Muk;gg] ghy; Ruj;jy; epiyapd; nghJ Vw;gLfpwJ.
- fhy;eilfs; cz;qk; cztpy; cs;s fhy;rpak; czt[brhpj;jypd; nghJ jd;kakhf;fg] glhikapdhy; Vw;gLfpwJ.

- **neha; mwpFwpfs; :**

1. eilapy; jLkhw;wk; 2. grpapd;ik 3. ehoj;Jog]g[mjpfhjp;jy; 4. Xa;tw;w epiy

5. rhjhuz cly; btg]gepiyia tplf; Fiwe;J fhzg]gly;.

- **Kjy; cjtp :**

1. Rz;zhk;g[ePUld; Toa bty;yj;jpid fd;W <Dtjw;F rpy ehl]fs; Kd;g[bfhLj;jy;.

2. kpUJthd rj;jhd brhpkhdkilaf;Toa cztpidf; fd;wpid <d;w gpd; bfhLj;jy;.

3. ghy;koapid btJbtJg]ghd Jzpapidf; bfhz;L Jilj;Jr] Rj;jk; bra;jy;.

4. gRtpd; ghy;kofpd; kPJ Rj;jkhd fhw;wpidr] brYj;JyJk;/ kofis ed;F gpoy;J tpLtJk; rpfpr]jir KiwfshFk;.

6.kyr]rpf;fy; :

- fodkhd ehUila cztpid mjpfk; cz;qjy;/ Fiwe;j msnt ePh]g] gUFjy;/ clw;gapw;rpapd;ik nghd;witfs; fLikahd kyr]rpf;fy;F fhuzkhFk;.

- **neha; mwpFwpfs; :**

1. grpapd;ik 2. mirnghLjypd;ik 3. fhy;eilfs; ke;jkhf fhzg]gLk;.

- **Kjy; cjtp :**

1. nfhJik jtpL czt[my;yJ mhprp beha; fQ;rp/ ePh]gw;Ws;s fhy;eilj;JPtdk; nghd;w czt[fig mspf;f ntz;Lk;.

2. bty;yk; my;yJ cg]g[ld; Toa mjpf mst[FoePh] mspj;jy;.

3. btJbtJg]ghd nrhg]g[ePh] \yk; kyf;Fliyr] Rj;jk; bra;jy;.

3. fwit ,d khLfig] gw;wp tpthp >

fwit ,dq;fs; my;yJ ghy; ,dq;fs; :

- ,e;j tif gRf;fs; ePz;l ehl]fSf;F ghiyf; bfhLf;Fk; jpwDs;sit.

- fhisfs; Fiwe;j ,Gf;Fk; jpwDs;sit.

- v. fh. rpe;jp/ fph]/ rhQpthy;/ ck;gsr]nrhp/ fud;Rtp!;.

1. rpe;jp (rptg]g[r] rpe;jp / rptg]g[f; fuhr]rp)

- njhw;wKk; gutYk; : ,e;j ,dk; fuhr]rpiia[k;/ iQjuhghj;ija[k; rhh]e;jJ.

- jdpj;jd;ik gz;g[fs; :

1. Th]ikahd mwpt[ila Kfj;njhw;wk; bfhz;lit.
 2. Fiwe;j mstpyhd fhk;g[fSld; Toa bghpa koiaf; bfhz;lit.
 3. khLfs; rhJthft[k;/ mlf;fkht[k; ,Uf;Fk;.
 4. fhisfs; rhiy ntiyf;Fk;/ tay; ntiyf;Fk; Vw;wKiwap; rPuhf ciHg]git.
 5. rpe;jp gRf;fs;btg]gj;ija[k;/ g{r]rpf;foiaa[k; jhq;Fk; jpwDilait.
- **ghy; cw;gj;jp** :: xU fwit fhyj;jpy; **5/ 443** fpnyhfpuhk; mst[f;F ghiyf; bfhLf;Fk;.
2. **fph] (fj;jpahthhp / Rh]jp)**
 - **njhw;wKk; gutYk;**: fph] ,dk; bjd; fj;jpathiur rhh]e; fph] fhLfspy; njhd;wpaJ. fyg]g[fph] ,d khLfs; gnuhlhtpYk;/ kQhuh#;ouj;jpy; rpy gF]pfpYk; fhzg]gLfpd;wd.
 - **jdpj;jd;ik gz;g[fs; :**
 1. jukhd fph] ,d khLfs; fk;gPuj; njhw;wk; bfhz;lit.
 2. fhJfs; ,iyfs; nghd;Wk;/ thy; ePskhdjhft[k;/ rh]jiliag] nghd;Wk; mike;jpUf;Fk;.
 3. bghpa koa[k; mjw;nfw;w fhk;g[fSk; cz;L.
 4. fhy;fs; ePskht[k;/ cUz;L jpuz;Lk; ,Uf;Fk;.
 5. fhis khLfs; gUj;j clnyhL ed;whf ,Gf;Fk; rf;jp tha;e;j khLfshFk;.
- **ghy; cw;gj;jp** : xU fwit fhyj;jpy; **3/ 715** fpnyhfpuhk; mst[f;F ghiyf; bfhLf;Fk;.

4. nfhHp tsh]g]gpd; Kf;fpa epiyfis tpthp :

1. Kl]ilfis njh]e;bjLj;jy;
2. Kl]ilfis milfhj;Jg] bghwpp;fr] bra;jy;
3. bghwpj;j FQ;Rfisg] gukhhpj;jy;
4. gz;iz mikj;jy;
5. czt[mspj;jy;.

(m) Kl]ilfisj; njh]e;bjLj;jy; :

1. Kl]ilfs; brHpg]ghf ,Uf;fntz;Lk;.
2. jFe;j mstpida[ila Kl]ilfisna njh]e;bjLj;jy; ntz;Lk;.
3. mlh] gGg]g[epw XLila Kl]ilfns Kd;djhf bghwpp;fpd;wd.
4. g[jpajhf ,lg]gl] Kl]ilfis njh]e;bjLf;f ntz;Lk;.

(M) milfhj;jYk; FQ;R bghhpj;jYk; :

- cfe;j NH;epiyf; fhuzpfSld; g[jpajhf ,lg]gl] Kl]ilfisf; FQ;Rfs; bghhpf;Fk; tiu itj;Jg] gukhhpj;jny milfhj;jy; vd;gjhFk;.
- milfhj;jypy; ,aw;ifahd milfhg]g[kw;Wk; brow;if milfhg]g[vd ,Utif cz;L.
- ,aw;if milfhg]gpy; Fiwe;j vz;zpf;ifapy; Kl]ilfis bgl]jlf;nfhHp milfhf;Fk;.
- brow;if milfhg]gpy; mjpf vz;zpf;ifapyhd Kl]ilfis milfhg]g[bgl]oapy; itj;J milfhg]gjhFk;.
- Kw;wpYk; cUthf;fkile;j nfhHpf; FQ;rhdJ 21 - 22 eh]l]fs; milfhj;jYf;Fg] gpwF/ Kl]ilapypUe;J bghhpe;J btsptUfpd;wJ.

(,) ngzpfhj;jy; :

- bghhpj;j ,sk; nfhHpf;FQ;Rfis ehd;F Kjy; MW thuk; tiu gukhhpj;j eph]t]fpj;jny ngzpfhj;jy; vd;gjhFk;.
- ngzpf;fhj;jypy;/ ,aw;if kw;Wk; brow;if Kiwfs; cz;L.

- ,aw;if Kiw ngzpfhj;jypy; XhpU ehl]fs; tajila FQ;Rfs; jha;nfhHpapd; guhkhpg]gpy; ,Uf;Fk;.
- braw;if Kiwg] ngzpfhj;jypy;/ btg]gepiy fl]Lg]gLj;]g]gl] FQ;R tsh]g]g]g] bgl]oapDs; itj;Jg] ghJfhf;fg]g]Lk;.

(<) FQ;Rfs; tsh]j;jYf;Fj; njitahd fhuzpfs; :

btg]gepiy :

- nfhHpf;FQ;R tsh]j;jypd; nghJ Kj; \d;W ehl]fSf;F njitahd cfe;j btg]gepiy 33°C.
- gpd;dh] ,e;j btg]gepiy thuj;jpw;F 3°C vd;w mstpy; 21°C tiu Fiwf;f ntz;Lk;.

fhw;nwhl]lk; :

- Mnuhf;fpakh ey;y tsh]r]rpf;Fj; J}a;ikahd fhw;nwhl]lk; kpft[k; Kf;fpakhFk;.
- fhw;nwhl]lkpd;ikahy;/ fhh]gd; - il - Mf;!L/ mk;nkhdpah kw;Wk; ePuhtpfs; xd;W nrh]e;J Ez;qaphpfsd; neha; jhf;FjYf;F cWJizahfpwJ.

jiu ,ilbtsp :

- xU nfhHpf; FQ;Rf;Ff; Fiwe;j mst[500 br.kP gug]gpyhd jiu ,ilbtsp mspj;jy; ey;yJ.
- ,y;iybadpy; FQ;Rfs; Fd;wpa tsh]r]rpa[k; kw;Wk; jd; ,dCd; cz;zpshf khwyhk;.

Fg]igfs; :

- itf;nfh; / mhprp ckpfs;/ kuj;Jfs;fs; nghd;witfs; tsh]g]gfj;jpd Fg]igfs; vdyhk;.
- tsh]g]gfj;jpd; Fg]igfs; jiunky; 5Kjy; 7. 5 br.kP. tiu jog]g]ld; cyh]e;j epiyapy; itj;jpUf;fg] glntz;Lk;.

xsp :

- tsh]g]gfj;jpDs; neha;f; fpUkpfs; EiHahtz;zk; ghJfhf;f ed;F xsp CLUt ntz;Lk;.
- xspapdhy; itl]lkpd; D cw;gj;jp bra;ag]g]L FQ;Rfs; ey;y tsh]r]rpadid mila[k;.

(c)gwit tsh]g]gfk; mikj;jy; :

- rpiwe;j fhw;nwhl]l trjpa[k;/ nfhilapy; Fsp]r]rpahft[k;/ Fsp]fh]yq;fspy; kpjkh] btg]g]JIDk; mikj;Jf; bfhs;s ntz;Lk;.
- jjug]g]FjpadJ <uk; Vw;glhkYk;/ vypfs; EiHahkYk; ,Uf;f ntz;Lk;.

(C) czt{l]lk; :

- nfhHpfSf;F mspf;fg]g]Lk; czthdJ nghjpa mst[ePh]/ fhh]ng]hiQ]nul;/ g]ujk;/ bfhGg]g]fs;/ itl]lkpd;fs; kw;Wk; jdpkq;fs; nghd;wtw;iw bgw;wpUf;f ntz;Lk;.
- kf;fhr]nrhsk;/ gh]yp/ nrhsk;/ nfhJik/ vz;izg] gpz;zhf;F/ mhprp nghd;w czt[fi]sa[k; xU jpl]lkhd mstpy; mspf;fyhk;.

5.kPd; Fsj;ij Maj;jk; bra;jy; kw;Wk; mij nkyhz;ik bra;jy; gw;wp xU tphpthd bjhFg]g] jUf.

Fsj;ij bra;jy; :

- ,Uthuq;fl;Ff; Fsj;jpd; jjug]gug]gpy; XuLf;Fr] Rz;zhk;igf; gug]ig ntz;Lk;. ,J mkpyj; jd;ikia ePf;fp njitaw;w kz; caphpfs; bfhd;W tpLk;.
- btg]gk;/ Mf;!p\$d; mst[/ fhu mkpyj;jd;ik/ fyq;fy;jd;ik/ fodj;jd;ik kw;Wk; kpjit caphpfs; tsh]r]r]p nghd;wit nrh]jpf;fg]g]l] gpd;dnu Fsj;jpy; kPd;fis tpl ntz;Lk;.

cukply; :

- Rz;zhk;g[,l]l 15 ehl]fSf;F gpd;/ kPd; czt[caphpfs tsh]g]g]w;fhf fhpk cuk; my;yJ ntjpa cuk; ,lntz;Lk;.

- fhpk cuq;fs; rpWePuhfnth/ iel]u\$d; epiwe;j rhf;fil ePuhfnth/ kh]Lr]rhzk;/gd;wp rhzk;/ nfhHp rhzk; gRe;jhs; cuk;/ fk;ng#!;] Kjypadthfnth ,Uf;fyhk;.
- xU bQf;nlUf;F 2 - 3 Id; kh]Lr]rhzk; my;yJ 5000 fpnyh nfhHpr]rhzk; njitg]gLk;.
- ed;dPh] Fsq;fSf;F bghJthfr] rpgghpR bra;ag]gLk; iel]u\$d;/ gh!;gu!;/ bgh]lhrpak; (NPK) mst[18 : 10 : 4 MFk;.
- xust[tskhd kz; bfhz;l Fsj;jpw;F 200 fp /bQ/tUlk; vd;w mstpy; a{hpahita[k; 450 fp/bQ/tUlk; vd;w mstpy; mk;nkhdpak; ry;ngl]ila[k; mLj;jLj;J ,lyhk;.

kPd; gz;izia nkyhz;ik bra;jy; :

- ePhpd; juj;ij xGq;Fg]Lj;j btg]g msit 25 - 35^oC f;Fs; itj;jpUj;jy;/ ePhpy; fiue;Js;s Mf;!p\$d;/ pH (6. 5 – 9. 0) fodj;jd;ik/ fyq;fs; jd;ik kw;Wk; kpjit caphp tsh]g]g] nghd;wtw;iw rhpahd mstpy; itj;jpUj;jy; ntz;Lk;.

czt{!}lk; :

- braw;ifahd cztpy; 30 - 40% g[ujk;/ 5 - 10% bfhGg]g[/ 50 - 60% fhh]nghiQ]n]ul] / 5% Fiwthd bry;Ynyh!;/ 10% jz;zPh]/ itl]lkpd;fs; kw;Wk; jhJg] bghU]fs; fhzg]gLk;.
- ,e;jpa bfz;il kPd;fSf;F mhprp;jjtp]ila[k;/ g[z;zhf;ifa[k; czthf bfhLg]gh].
- tpuhy;/ bfSj;jp nghd;w khkpr cz;zp kPd;fSf;F/ gad;glhj fHpt[kPd;fis bfhLg]gh].

tHf;fkhd eilKiw nkyhz;ika[k; / neha;fSk; :

- ePiu khw;Wjy;/ fhw;nww;wk;/ rPuhz czt{!}lk;/ ,wg]igf; ftdpj;jy;/ neha; mwpFw]pfis fz;lwpjy; nghd;wit tHf;fkhd eilKiwfshFk;.
- neha;fs; itu!;fshnyh/ ghf;Ohpahf;fshnyh/ g[w xl]Lz;zp my;yJ mf xl]Lz;zpfshnyh Vw;glyhk;.

6. jkpH;eh]od; ed;dPh] czt[kPd;fs; gw;wp fl]Liu vGJf.

1. ed;dPh] kPd;fs; :

- ed;dPh] kPd;fspy; fhh]g]g]fs; bghpa bjhFjpahFk;. ,it rpg]hpdpghh]kp!; thpiria rhh]e;jJ.
- ,tw;wpw;F thapy; gw;fs; ,y;iy / bjhz;ilg] gw;fs; cz;L.

,e;jpa bgUk; fhh]g]g]fs; (bfz;il kPd;)

(m). fl;yh fl;yh (fl]yh) :

- mfd;w cly;/ bghpa jiy/ nky;nehf;fpa czh] ,iHfs; mw;w cjLfs; fhzg]gLk;.
- 14 Kjy; 16 JLg]ghiwfs; bfhz;l mfd;w KJFg]gf;fj; JLg]g[cs;sJ.
- ,e;jpa bgUk; bfz;ilfspy; ,J kpf ntfkha; tsUk; kPd; MFk;.
- ,J mjpfgl;rkha; 1. 8 kP (45 fpnyh) ePsk; tiu tsUk;.
- Kjy; tUlk; ,jd; tsh]r]rp 35 - 45 br.kP/ fp]lj;j]l] 1. 5 - 2. 0 fpnyh vilahFk;.

(M). nygpah nuhfpl]lh (nuhF):

- ,J xU Th]jika]hd rpwpa jiyiaa[k;/ ,iH tpspk;g[bfhz;l fPH; cj]ila[k; bfhz;lJ.
- 12 Kjy; 13 JLg]ghiwfs; bfhz;l KJFg] gf;fj; JLg]g[cs;sJ.
- midj;J fhh]g]g]f]spYk; ,J jhd; mjpf] Rit kpFe;jJ.
- ,J tsUk; mjpf]r mst[1 kP.
- Kjy; tUlk; ,jd; tsh]r]rp 35 - 40 br.kP. ePsk; . 900 fpnyh vilahFk;.

(.) rph]iudh kph]fhyh (kph]fhy;):

- ePz;l cly;/ rpwpa jiy/ Th]jika]hd Kfiu/ bkd;ika]hd cjL bfhz;l tha; bfhz;lJ.

- 12 Kjy; 13 fpisj; JLg]ghiwfs; bfhz;l KJFg]gf;fj; JLg]g[cs;sJ.
- bghd;tz;:r] rhay; bfhz;l gsgsf;Fk; btz;ikahd cly; bfhz;lJ.
- ,jd; mjpfgl]r ePsk; 0. 9 kP.
- Kjy; tUI tsh]r]rp 30 br.kP. ePsk;. 700 fpuhk; vil tiu tsUk;.

(<). g{id kPd;fs; (thpir - irY}hpghh]kp!; (bfSj;jp) :

- nky; kw;Wk; fPH; jhilfs; xt;:bthd;wpYk; ,Un\$ho czh] ,iHfs; fhzg]gLfpd;wd.
- ,it tspkz;lyj;jpy; cs;s fhw;iw nehphilahfr] Rthrf;Fk; jpwd;; bgw;wJ.
- clypy; brjpy;fs; fpilahJ.
- jk; ,dj;ijna bfhhd;W jpd;Dk;.

(c). jpn yg]gpah (thpir - bgh]rpghh]kp!;) XhpnahFnuhkp!; bkhrhk;gpf!; (\$pnygp bfz;il)

- Mg]gphpf;f fpHf;Ff; flw;fiug] gFjpapypUe;J bfhz;L tug]g]l xU btspehl]L kPd; ,J.
- Kd;Kidapy; KI]fs; bfhz;l KJFg] gf;fj; JLg]iga[k;/ gpd; Kidapy; bkd;ikahd KJFg]gf;fj; JLg]iga[k; bfhz;oUf;Fk;.
- xU tUl;jpw;Ff; fp]l]j;]l v]L Kiw ,it ,dg]bgUf;fk; bra;a[k;.
- bgz; kPd;fs; jk; thapy; KI]ilfis itj;Jg] ghJfhf;Fk;.

7. ,jaj;Jog]ig mwpa cjt[k; fUtp gw;wpa[k; / ,uj;j mGj;jj;ij fzf;fpl cjt[k; fUtp

gw;wpa[k; vGJf.

1. !;blbj!;nfhg] :

- ,ja xypfis fz;lwpa 1855 Mk; Mz;L Kjy; ,U brtp !;blbj!;nfhg] fz;Lgpof;fg]gl;lj.
- etPd kpd;dD rhh]e;j !;blbj!;nfhg]g]fs; kpft[k; Jy;ypakhd rhjdq;fs; MFk;.
- Rw;Wg]gwk; kpft[k; ,iur]rYld; fhzg]g]lhYk; TI / ,jak; kw;Wk; Eiuapuy;fspd; xypfis bjspthff; nfl]f cjt[k;.
- jhapd; tapw;wpypUf;Fk; fUtpd; ,ja xypiaf; TI !;blbj!;nfhg]ghy; nfl]f ,aYk;.

gad;fs;:

1. ,jaj;jpd; rhjhuz(yg] - lg])/ mrjhuz xypfis fz;lwpa cjt[k;.
2. ,ja thy;t]fspd; gzp rPh]nfl]il fz;lwpa cjt[k;.
3. epa[nkhdpah/ Eiuapuy; vOkh njhd;Wk; nghJ Eiuapuy; jputq;fis fz;lwpa vjt[k;.
4. gpuhq;ifo!;/ g[Siul]o!; nghd;w Rthr ghij neha;fis fz;lwpa cjt[k;.
5. rhjhuz Fly; ghijfspd; ,af;fj;ij fz;lwpa cjt[k;.

2. !;gpf;nkh khndhkPI]lh] :

- ,uj;j mGj;jj;ij fz;lwpa cjt[k; fUtp !;gpf;nkh khndhkPI]lh] MFk;.
- ,jak; xU jilt RUq;Fk; nghJk; / tphptila[k; nghJk; eilbgWk; epfH;r]rpfspd; bjhFg]ig ,ja RHw;rp vd tiuaWf;fyhk;.
- btz;l]hpf;fps; RUq;Fk; nghJ Vw;gLk; cr]r mGj;jk; **rp!;nlhypf; mGj;jk;** vd;W bgah]. ,jak; tphptila[k; nghJ Vw;gLk; Fiwe;j mGj;jk; **la!;nlhypf; mGj;jk;** vd;W bgah].
- rhjhuz ,uj;j mGj;j mst[**120 / 80 mmHg** MFk;. ,jpy; 120 vd;gJ rp!;nlhypf; mGj;jj;ija[k; 80 vd;gJ la!;nlhypf; mGj;jj;ijapk; Fwpf;Fk;.

gad;fs; :

1. ,uj;j XI[lj];ij mwpat[k;/ ,jak; bray;gLtij mwpat[k; cjt[fpwJ.
2. iQg]gh] bld;rd; - mjpf uj;j mGj;j epiyaa[k;/ iQg]ngh bld;rd; - Fiwthd uj;j mGj;j epiyaa[k; fz;lwpa cjt[fpwJ.

. QPnkh irl]nlhkPI]lh] gw;wp tpthp :

- ,uj;jr] bry;fis vz;z cjt[k; cgfuzk; QPnkh irl]nlhkPI]lh] MFk;.
- ,uj;jr] bry;fis vz;qtJ QPnkhirl]nlhbkl]hp vd;W miHf;fg]gLk;
- QPnkhirl]nlhbkl]hpiea g] gad;gLj;jp rptg]gqf;fs;/ gpns!|by!|Lfs;/ <rndhgpy;fs;/ ghf;Ohpah/ <!;|] my;yJ ghrpfs; nghd;wit vz;zg]gLfpd;wd.

QPnkh irl]nlhkPI]lh] :

- xU QPnkhirl]nlhkPI]lh]/ vz;qk; miwfisa[k;/ fz;zho \oiaa[k;/ ePh]f;Fk; gpg]gl]Lfisa[k; bfhz;oUf;Fk;.
- **epa{ghh}/ @ghf;!;nuh#d;jhy;** Mfpait bghJthf gad;gLj;jf; Toa vz;qk; miwshFk;.
- **RBC**bry;fis ePh]f;f **nQak;!; jputk;/ WBC** bry;fis ePh]f;f **lh]f;!;** my;yJ **lha;!;!hd;** jputKk; gad;gLj;jg]glyhk;.
- ,uj;jr] bry;fis vz;qtjw;Fr] rpiu ,uj;jk; gad;gLj;jg]gLfpwJ.
- bkhj;j bry;fspd; vz;zpf;if fdkpy;ypkPI]lhpy; Fwpg]gplg]gLk;.

kUj;Jt Kf;fpaj;Jtk; :

1. ,uj;jr] rptg]gqf;fs; FiwtJ mdPkpahitf; (,uj;j nrhif) Fwpf;Fk;.
2. ,uj;jr] rptg]gqf;fs; mjpfhpg]gJ ghypir;jPkpahit Fwpf;fyhk;.
3. epiyaw;w WBC mjpfhpg]g[ghf;Ohpah bjhw;iwf; Fwpf;Fk;.
4. bjhlh]e;J WBC mjpfhpg]J ,Ug]gJ YfPkpahitf; (,uj;j g[w;W neha;) Fwpf;Fk;.

9. rpWePh] Ma;t[kw;Wk; rpWePh]r] rh]f;fiu Ma;t[:

rpWePh] Ma;t[:

- rpWePufk; kw;Wk; rpWePufg] ghijapd; jd;ikfif; fz;lwpa cjt[k;.
- clypy; cs;s tsh]rpij khw;wf; nfshWfs; kw;Wk; clykg]g[cWg]g[f; nfshWfs; nghd;wtw;iw mwpa cjt[k;.

rpWePh]r] rh]f;fiu Ma;t[:

- rpWePhpy; fhzg]gLk; FSf;nfh! mstplYk;/Ma;t[bra;jYk; rpWePh]r] rh]f;fiu Ma;thFk;.
- rpWePhpy; mjpfkhf FSf;nfh!; fhzg]gLk; epiyf;F **fpisf;nfh!Phpah** vd;W bgah].
- rpWePhpy; iQg]gh] fpisrPkpah (mjpf] rh]f;fiu) ,Ug]gJ cWjp bra;ag]g]lh]y;/ **lahgo!;bkyp!|!**; vDk; ehs;g]l] tpahjp ,Ug]gJ cWjp bra;ag]gLfpwJ.
- ,e;epiyapy; 280 kp. nkhy;/ yp. FSf;nfh!; rpWePhpy; fhzg]gLk;.
- rpWePhpy; cs;s FSnfhi! gz;g[mog]gilapYk;/ mstply; KiwapYk; Ma;t[bra;ayhk;.
- bgdpof;|] nrhjid/ FSf;nfh!pd; gz;ig fz;lwpa cjt[k;.
- bgdpof;|] nrh]k Kiw/ FSf;nfh!; Mf;!pn!; Kiw/ o- blhYod; Kiw nghd;wit rpWePhpy; cs;s rh]f;fiu msit fz;lwpa cjt[k; KiwshFk;.
- rpWePh]r] rh]f;fiufisf; fz;lwpa xU kpr]rpwe;j Kiw **bky;ypa mLf;F Fnuhkl]nlhfpuhgp** MFk;.
- ,uj;jf; rh]f;fiu mst[fisf; fz;lwpar] rkPgf; fhy;jpy; **o\$pl]ly; FSf;nfhkPI]lh]** gad;gLj;jg]gLfpwJ.

10. P, Q, R, S kw;Wk; T miyfs; (ECG) gw;wp xU fl]Liu tiuf.

<. rp. \$p :

- <.rp.\$p. vd;gJ ,jar] RHw;rpapd; nghJ ,jaj;jpy; Vw;gLk; kpd;jpwd; khw;wq;fspd; Mtzk;.
- <.rp.\$p. ia gjpt[bra;a cjt[k; cgfuzk; vyf;l]nuhfh[h]onahfpuk; MFk;.

P,Q,R,S,T miyfs; :

- ,jaj;J}z;L tpir Kjdpuy ng!;nkf;fuhd ird!; fJg]gpy; Jtq;fp ,jaj;ijr] NH;e;Js;s jpRf;fspYk; gut[k;.
- xU rhjhuz <.rp.\$p. apy; le;J miyfs; fhzg]gLk;. mitfs; P,Q,R,S kw;Wk; T miyfs;.
- P/R kw;Wk; T miyfs; neh]kiw miyfs;. Q kw;Wk; S miyfs; vjph]kiw miyfs;.

P miy:

- ,J kpd;dhw;wy; jpirkhw;wk; Mhpf;fps;fspy; gut[tjhy; cz;lhpwJ.
- ,jd; fhy mst[0. 1 tpdho. ,jd; tPr]R fp]lj;]l] 0. 1 Kjy; 0. 3 kP nthy;l] MFk;.
- P miy cr]rf;fl]j;ij mila[k; nghJ ,jaj;J}z;L tpir irD - Mhpf;Fyhh] fJg]ig milfpwJ.
- Mhpf;fps; bray;ghl]ilf; fz;lwpa P miy cjt[k;.

Q/R kw;Wk; S miyfs; :

- P miy Koe;jJk;/ rk kpd;dhw;wy; ,ilbtsp cz;lhpwJ.
- Q miy Mhpf;fps; ,ilr]Rthpy; eilbgWk; kpd;dhw;wy; jpir khw;wj;ijf; Fwvf;Fk;.
- Q miyvd;gJ fPH;nehf;fpa rpwpa vjph]kiw tisthFk;.
- R kw;Wk; S miyfs; btz;l]hpf;fps; jpirapy; eilbgWk; kpd;dhw;wy; jpir khw;wj;ijf; Fwvf;Fk;.
- R miy vd;gJ xU bghpa neh]kiw miy. S miy vd;gJ rpwpa vjph]kiw miy.
- QRS TI]od; fhy mst[0. 08 tpdho. R miyapd; ruhrhp tPr]R fp]lj;]l] 1 kp nthy;l] MFk;.
- QRS TI]od; khWghLfspypUe;J VuhskhD neha;fs; Fwpj;j jfty;fisg] bgwyhk;.

T miy :

- S miyiaj; bjhlh]e;J xU rk kpd;dhw;wy; ,ilbtsp fhzg]gLk;.
- T miy btz;l]hpf;fspy; eilbgWk; kpd;dhw;wy; kPs;itf; Fwvf;Fk;.
- T miy fhy mst[0. 27 tpdho. ,jd; tPr]R 0. 15 Kjy; 0. 5 kp nthy;l] MFk;.

11.CT !;nfd; vd;why; vd;d > mjd; gad;fs; ahit >

CT !;nfd; :

fk;a{lll] nlhkhfpuhgp (CT) my;yJ CAT njh]e;jhuha;jy; vd;gJ xU o\$pl]ly;
fzpdpapd; gad;ghl]ila[k; / RHYk; vf;!;nu mikg]iga[k; xd;wha; ,izj;J/ clypd;
gy;ntW cWg]g[fs; kw;Wk; ghfq;fspd; FWf;F th]l]L epHYWf;fs; my;yJ Jz;Lfis
cUthf;FyJ MFk;.

CT apd; nkD;ikapd; gad;ghLfs; :

1.tHf;fkha; vLf;fg]gLk; vf;!;nu epHYWtpy; fghy;jpd; mlh]e;j vYk;g[fis
khj;jpunk

fhzKoa[k;.

2.fhe;j mjph]tiyg] bgUf;fk; (MR !;nfd;) bkd;ikahd jpRita[k;/ ,uj;jf; FHha;fisa[k;
fh]l]Lk;.

3.CT epHYWf;fs; khj;jpunk bkd;ikahd jpRf;fs;/ \isapd; FHpfs; nghd;w
cs;SWg]g[

mikg]g[fs;/ \isapd; rhk;gy; kw;Wk; btz;ikahd mikg]g[nghd;wtw;iw Muha
cjt[fpwJ.

CT apd; gad;fs; :

1.EiuaPuy;/ fy;yPuy; kw;Wk; fizag] g[w;W neha;fisf; fz;lwpa
gad;gLj;jg]gLfpwJ.

2..ja neha;fs;/ nkhrkhd !;l]nuhf;Ffs; /jir mGfy; my;yJ rpWePuff; nfhshW
nghd;wtw;iw fz;lwpa gad;gLfpwJ.

3.M!;onahngnuhrp!; vDk; nehapdhy; ghjpf;fg]gl]lth]fspd; vYk;g[fsfy; cs;s
jhJg]

bghU]fspd; mlh]itf; fz;lwpa cjt[fpwJ.

4.fhJfspd; cl]gFjpfisa[k;/ vYk;g[cl]FHpfisa[k; Muha CT ed;F cjt[fpwJ.

5.g[w mjph]r]rpg] g[z; kw;Wk; cWg]g[fsfy; Vw;gLk; ,uj;jf; frpit fz;lwpa
gad;gLfpwJ.

6.g[w;Wneha] rpfpr]irf;fhd fjphpaf;f kUe;Jtj;ijj; jpl]lkplYf;Fk; CT epHWf;fs;
mog]gilahf mikfpd;wd.

Fwpg]g[: 1. midj;J tpdhf;FfSf;Fk; tpilaspf;fdt[k;.

2.rhpahd tpilia njh]e;bjLj;J vGjt[k;.

1.bghpak;ik Vw;glf; fhuzkhd itu!;

(m) ghuh itu!; (M) HBV (,) nthpnahyh itu!; (<) Md;nfh\$Pdpf; itu!;

2.gpd;tUtdtw;Ws; vJ ghy;tpid neha;

(m) gpnsf; (M) ilgaha;L (,) rpgpyp!; (<) fhuyh

3. MHC \$Pd;fs;/ Rz;blypapd; ve;jf; Fnujnkjnrhkpy; vs;sJ >

(m) Fnuhnkhnrhk; 1 (M) Fnuhnkhnrhk; 2 (,) Fnuhnkhnrhk; 20 (<) Fnuhnkhnrhk; 6

4. gpd;tUtdtw;Ws; ve;j kugpay; neha; bgUk;ghYk; rpWth]fspy; fhzg]gLk;

(m) my;gpdprk; (M) vfhkhFnshg[ydpdkpah (,) jyhrPkpah (<) mz;oq;ld; bfhhpah

5. fPH;f; fhz;gitfspy; vJ ehl]L nfhHpapdk; my;y>

(m) g!;uh (M) rp]lfhq; (,) gpuhkh (<) mrPy;

6. fHpKf ePh] kPd;fSf;F xU cjhuzk;

(m) jponyg]gpah (M) bfhLth (,) kj;jp (<) tQ;rpuk;

7. WBC f;fis ePh]f;Fk; jputk;

(m) lh]f;!; jputk; (M) bgypq; jputk; (,) nQak;!; jputk; (<) bgdpof;!; jputk;.

8. ghpkhz braw;ghq;F vDk; E]iy btspap]nlhh]

(m) blhg]rhd;fp (M) !;blgpd;!; (,) Qhh]o tPd;bg]f; (<) Qpa{nfh O tphp!;

9. nrhoak; a{nul] gofq;fs; \]Lfspd; FUj;bjYk;g[gFjppayk; mijr] Rw;wpa[s;s jpRf;fspYk;

irndhtpay; ciwapd; kPJ gotjhy; njhd;Wk; \]Ltyp

(m) bjhw;W \;Ltyp (M) M!;onah \]Ltyp

(,) +khl]of; \]Ltyp (<) tsh]rpij khw;wf; FiwghL \]Ltyp

10.@iggphpndh\$d; vDk; g[nuhl]Od; fiuah g[nuhl]Odhfpa @iggphpd; vDk; bghUshf khWtjw;F

njitg]gLk; vd;ilk;

(m) g[nuhJnuhk;gpd; (M) Jnuhk;gpd; (,) g[nuhJnuhk;gpd!; (<) Jnuhk;nglifnd!;

11. lisapd; kpd;ndhl]l miyt]fis gjpt[bra;a cjt[k; fUtp

(m) vyf;]nuh fhh]onahfpuhk; (M) vyf;]nuh vd;br@gnyhfpuhk;

(,) vf;nfh fhh]onahfpuhk; (<) vd;n!;nfhg]gp

12. a{hpahit cUthf;Fk; ,lk

(m) ,uj;jk; (M) fy;yPuy; (,) \isj;jz;Ltl jputk; (<) rpWePufk;.

13. \$pd;\$pitl]oi!]j; njhw;Wtpg]gJ

(m) yP!;nkdpah nlhzhthdp (M) fpahh]oah ,d;!;!;]odhyp!;

(,) ohpg]ndhnrhkh nfk;gp ad;!; (<) oiuf;nfhkhhdhLfs;

14. gpd;tUtdw;Ws; ve;j xd;W Xnrhd; Fiwg]g[g] bghUs; my;y>

(m) Fnhsnuh g[Snuh fhh]gd; (M) iel]u\$d; Mf;!L

(,) kpijy; g[nuhkpl] (<) iQl]u\$d;

15. caphpa kUj;Jt rpfpr]ir fHpt[fs; ,k;Kiwapy; ePf;fg]gLfpd;wd.
 (m) epyj;jpy; epug]g[jy; (M) MH;fpzW gha;r]ry;
 (.) nkW;gug]gpy; \o itj;jy; (<) vhpj;Jr] rhk;gyhf;fy;
 16. KG cl]fUita[k; khw;Wtjpy; bry;fs; ----- vDk; ntj]pg] bghUSf;F cl;gLj;jg]g]L
 cl]fU ePf;fk; bra;ag]gLfpd;wd.
 (m) ghyp vjpypd; fpisf;fhy; (M) iliel]nuhgPdhy;
 (.) ir]nlhbryhrpd; B (<) fhy;rpD;
gphpt[- M

Fwpg]g[: vitnaDk; vl]L tpdhf;fSf;F kl]Lk; tpilaspf;ft[k; (8 × 3 = 24)
)

17. khndh rhf;fpiuLfis tifg]gLj;Jf.
 18. fh]g!; Y}]oaj;jpd; gZpfs; ahit >
 19. og]sha;L vd;why; vd;d >
 20. nkf;nuhg\$;fs; vt;thW @ngnfhir]nlhrp!; rh]e;j jilahf bray;gLfpwJ >
 21. khw;WWg]g[epuhfhpg]igj; jLg]gjw;F nkW;bfhs;sg;gLk; eltof;iffs; VnjDk;
 \d;wpid vGJ
 22. re;jjp tHpj;b]hlh] Ma;t[vd;why; vd;d >
 23. cDNA vd;why; vd;d >
 24. khWghliljy; vd;why; vd;d >
 28. Qhh]o - tPd;bgh]f; tpjpia TW >

gphpt[- , (3 × 5)
 = 15)

Fwpg]g[: VnjDk; \d;W tpdhf;fSf;F tpilasp. ,tw;Ws; tpdh vz; 31 f;F fz;og]ghf
 tpilaspj;jy; ntz;Lk;.

29. brhpf;fg]g;]l] cz]t[g] bghUI]fs; vt;thW cl]fpupf;fg]g]L jd;kakhf;fg]gLfpwJ
 vd;gij tpthp.

30. nugp!; kw;Wk; fhyuhtpd; neha;f;fhuzp/ mwpFwpfs; kw;Wk; gut[k; tpjj;ij
tpthp.

31. bghUe;jjF neha;j; jilfhg]ig KLf;fp tpLjy; Fwpj;J rpWFwpg]g[vGJf.

32. kdpj Fnuhnkhnrhk; bjhFg]g[tiu glj;ij tpthp.

33. ghpzhkj;jpy; kugpa efh]tpd; gg;fpid vGJ.

gphpt[- <

(2 × 10 = 20)

Fwpg]g[: vitnaDk; ,uz;L tpdhf;fSf;F kl]Lk; tpilasp.

34. ,ja ,af;fj;J}z;ly; njhd;wYk;/ gut]Yk; kw;Wk; ,ja ,af;f RHw;rpia tpthp.

35. fhJ nfshj; jd;ikapd; tiffisa[k; mij rhpbra;a[k; Kiwfisa[k; tpthp.

36. ,lh]ghlw;w jplf;fHpt]fs; nkyhz;ik gw;wp xU fl]Liu tiuf.

37. fhY;eil ,dg]bgUf;fj;jpy; nkW;bfhs;sg]gLk; bjhHpy; El]g Kiwfis tpthp.

may; ,d khLfs; gw;wp Fwpg]bgGJf.

khjphp tpdh - 2

gphpt[- m

1.vit elkhLk; kug[g] bghUs; vdg]gLfpwJ

(m) gpsh!;kpl]fs; (M) igyp (.) ghh] cWg]g[(<) ouhd;!;nghrhd;fs;

2. g[nuhl]onahkpf;!py; g[ujq;fis Ma;tjw;F bry;fspy; vjid Ma;t[bra;fpwhh]fs;>

(m) o.Mh].vd;.V (M) Mh].Mh].vd;.V (.) vk;.Mh].vd;.V (<) o.vd;.V

3. Xnrhd; ,Hg]g[Kj; Kjypy; ----- gFjpf;F nky; !;!]nul]nlh!;gpah] gFjpapy;

fz;Lgpof;fg]g!]J.

(m) Mh]!]of; (M) mz;lhh]of; (.) Mg]gphpf;fh (<) M!;jpnuypah

4.xt;thU tUIKk; NhpaplkpUe;J g{kpf;F ----- Mw;wy; fpilf;fpwJ.

(m) 15×100^{20} fpnyh fnyhhpfs; (M) 10×10^{30} fpnyh fnyhhpfs;

5.,ja ,af;fq;fspy; Jiz bra;a[k; jdpkq;fs;

(m) bgh!]lhrpaKk; fhy;rpaKk; (M) nrhoaKk; bgh!]lhrpaKk;

(.) FnshhpDk; nrhoaKk; (<) mnahoDk; FnshhpDk;

6.gpd;tUdtw;Ws; vJ g[hpah] xU g[jph] nghd;w Mz;ob\$Df;F vjpuhf njhd;Wk;
neha;

jLg]ghw;wy; FiwghL >

(m) gf;fthjk; (M) fhrneha; (.) Unkl]of; \]Ltyp (<) ky;og]gps; !;fjspnuhrp!;

7.jirfs; RUq;Fk; nghJ V.o.gp (ATP) \yf;TWfs; ,iza[k; ,lk;.

(m) iknahrpd; ,iH (M) iknahigg]hpy;fs;

(.) euk;g[Kid (<) Mf;od; ,iHfs;

8.Mh]dpijd; RHW;rpapy; er]Rg] bghUshd mk;nkhdpahit xU a[hpah \yf;Twhf
khw;w

njitg]gLk; ATP \yf;TWfspd; vz;zpf;if

(m) ehd;F (M) ,uz;L (.) \d;W (<) xd;W

9.rpWePh] rh]f;fiuiaf; fz;lwpa ,J xU kpfr] rpwe;j Kiw

(m) vz;n!h!;nfhg]gp (M) bky;ypa mLf;F Fnukl]nlhfpuhgp

(.) vyf;]nuh fhh]onahfpuhk; (<) nlhkhfpuhg

10.Rz;zhk;g[ePUld; bty;yk; fye;J bfhLg]gJ ve;neha;f;fhd Kjy; c]tp rpfr]ir >

(m) tapw;Wg]nghf;F (M) kyr]rpf;fy; (.) ghy; fha;r]ry; (<) Md;e;jpuhf;!;

11. midj;Jf; fhh]g]g[fspYk; ,Jjhd; mjpf Rit kpFe;j kPd; vdf; fUjg]gLfpwJ.

(m) fl;yh fl;yh (M) nygpah nuhfp]lh (.) rph]didh kph]fhyh (<) rd;dh kUypa!;

12. \$Pd; FGkk; nkk;gh]ow;F fhuzpfs;

(m) jpOh] khw;wq;fs; (M) clw;gz;g[khw;wq;fs;

(.) Fnukhnrhk;fspd; Fiwt[(<) ir]nlhgpsrkh; mjpfhpg]g[

13.kdpjhpy; nugp!; neha;f;F Kjypy; jLg]g{rpiaf; fz;lwpe;jth] >

(m) ,uhgh]!] nfhr] (M) n\$hr] yp!;lh] (.) Y}ap!; gh!;oa{h] (<) !;nld;yp

14.gpd;tUdtw;Ws; g[nuh]nlhnrhth xl]Lz;zpahy; cz;lhfK; neha; vJ >

(m) Mg]gphpf;fd; J}f;f tpahjp (M) kzy;thhp mk;ik

(.) fhyuh (<) Odpahrp!;

15. itu!; nehiaf; fl]Lg]gLj;Jk; mjpgf bray; bfhz;l ntjpg] bghUs; fhuzp

(m) bl]uhirf;spd; (M) Mk:gprpypd; (,) ,d;lh]bguhd; (<) Md;e;j;uhikrpd;

16. epzePh] Kor]rpy; gpd;tUtw;Ws; ve;j gFjp ijk!; rhh]e;j gFjp

(m) fhh]blf;!; gFjp ghypf;fps; (M) bkLy;yh

(,) cs; EiHf;FHy; (<) ghuh fhh]blf;!; gFjp

gphpt[- M

(8 × 3 = 24)

Fwpg]g[- vitnaDk; vl]L tpdhf;fSf;F kl]Lk; tpilasp.

17. ,ja EiuaPuy; bray; J}z;ly; vd;why; vd;d>

18. oa]bgf;lkp vd;why; vd;d>

19.ouhd;!;lf;rd; vd;why; vd;d>

20. Mz;oghofspd; \d;W gzpfiss; TW.

21.mdhigyhf;rp!; vd;ehy; vd;d>

22.kdpj \$Pndhk; jpl;lk; vd;why; vd;d>

23. khWghliljy; vd;why; vd;d>

24.caphp jftypay; Vw;gl tHptFj;j mwptpay; fz;Lgpog]g[fs; ahit>

25.caphpa kpFts ikaj;jpd; gz;g[fs; VnjDk; ,uz;oid vGJf.

26.may; ,d khLfspy; VnjDk; \d;wpd; bgah]fis vGJ.

27. braw;if tpe;J}]]lk; vd;why; vd;d>

28.Fnuhnkhnrhk; gd;ikapdh] njhd;Wtjw;fhd fhuzq;fis vGJ.

gphpt[- ,

(3 × 5 = 15)

VnjDk; \d;W tpdhf;fSf;F tpilasp. ,tw;Ws; tpdh vz; 31 f;F fz;og]ghf

tpilaspj;jy; ntz;Lk;.

29. J}f;fk; xU jd;dpiy kwe;j epiy - cd; fUj;ij jUf.

30. va;|!; neha; jLg]g[k; fl]Lg]gLj;JjYk; gw;wpa Fwpg]g[vGJf.

31.xl]LWg]g[tpyf;fspd; mwpFwpfs; ahit>

32.kug[khw;wg]g|l tpyq;Ffspd; gad;fs; ahit>

33.rpty; iul; tpist[gw;wp tpthp.

gphpt[- <

(2 × 10 = 20

)

VnjDk; ,uz;L tpdhf;fSf;F tpilaspf;ft[k;.

34.rpWFlypy; eilbgWk; brhpj;jy; epfH;t[fiis tpsf;ft[k;.

35. khjtplha; RHw;rpapid tpthpf;ft[k;.

36.cyfshtpa btg]g cah]tpdhy; Vw;gLk; tpist[fisa[k; mijf; fl]Lg]gLj;Jk;

Kaw;rpfisa[k; tpthp.

37. !;gpf;nkh khndhkPI]lh] bray;gLk; Kiw kw;Wk; gad;fisg] gw;wp tphpthf vGJf.

khjphp tpdh - 2 gphpt[- m

1	ஈ	டிரான்ஸ்போசான்கள்
2	இ	எம்.ஆர்.என்.ஏ
3	ஆ	அண்டார்டிக்
4	இ	$5 \times 10 + 5^{20}$ கிலோ கலோரி
5	அ	பொட்டாசியமும் கால்சியமும்
6	இ	ருமெட்டிக் மூட்டுவலி
7	ஈ	ஆக்டின் இழைகள்
8	இ	மூன்று
9	ஆ	மெல்லிய அடுக்கு குரொமட்டோகிராபி
10	இ	பால்காய்ச்சல்
11	ஆ	லேபியோ ரோகிட்டா
12	அ	திமூர் மாற்றங்கள்
13	இ	லூயிஸ் பாஸ்டியூர்
14	அ	ஆப்பிரிக்கன் தூக்க வியாதி
15	இ	இன்டர்பெரான்
16	ஈ	பாரா கார்டெக்ஸ் பகுதி

xUkjpg]bgz; tpilf;Fwpg]g[fs;

1	m	M	,	<	51	m	M	,	<	101	m	M	,	<	151	m	M	,	<
2	m	M	,	<	52	m	M	,	<	102	m	M	,	<	152	m	M	,	<
3	m	M	,	<	53	m	M	,	<	103	m	M	,	<	153	m	M	,	<
4	m	M	,	<	54	m	M	,	<	104	m	M	,	<	154	m	M	,	<
5	m	M	,	<	55	m	M	,	<	105	m	M	,	<	155	m	M	,	<
6	m	M	,	<	56	m	M	,	<	106	m	M	,	<	156	m	M	,	<
7	m	M	,	<	57	m	M	,	<	107	m	M	,	<	157	m	M	,	<
8	m	M	,	<	58	m	M	,	<	108	m	M	,	<	158	m	M	,	<
9	m	M	,	<	59	m	M	,	<	109	m	M	,	<	159	m	M	,	<
10	m	M	,	<	60	m	M	,	<	110	m	M	,	<	160	m	M	,	<
11	m	M	,	<	61	m	M	,	<	111	m	M	,	<	161	m	M	,	<
12	m	M	,	<	62	m	M	,	<	112	m	M	,	<	162	m	M	,	<
13	m	M	,	<	63	m	M	,	<	113	m	M	,	<	163	m	M	,	<
14	m	M	,	<	64	m	M	,	<	114	m	M	,	<	164	m	M	,	<
15	m	M	,	<	65	m	M	,	<	115	m	M	,	<	165	m	M	,	<
16	m	M	,	<	66	m	M	,	<	116	m	M	,	<	166	m	M	,	<
17	m	M	,	<	67	m	M	,	<	117	m	M	,	<	167	m	M	,	<
18	m	M	,	<	68	m	M	,	<	118	m	M	,	<	168	m	M	,	<
19	m	M	,	<	69	m	M	,	<	119	m	M	,	<	169	m	M	,	<
20	m	M	,	<	70	m	M	,	<	120	m	M	,	<	170	m	M	,	<
21	m	M	,	<	71	m	M	,	<	121	m	M	,	<	171	m	M	,	<
22	m	M	,	<	72	m	M	,	<	122	m	M	,	<	172	m	M	,	<
23	m	M	,	<	73	m	M	,	<	123	m	M	,	<	173	m	M	,	<
24	m	M	,	<	74	m	M	,	<	124	m	M	,	<	174	m	M	,	<
25	m	M	,	<	75	m	M	,	<	125	m	M	,	<	175	m	M	,	<
26	m	M	,	<	76	m	M	,	<	126	m	M	,	<	176	m	M	,	<
27	m	M	,	<	77	m	M	,	<	127	m	M	,	<	177	m	M	,	<
28	m	M	,	<	78	m	M	,	<	128	m	M	,	<	178	m	M	,	<

29	m	M	,	<	79	m	M	,	<	129	m	M	,	<	179	m	M	,	<
30	m	M	,	<	80	m	M	,	<	130	m	M	,	<	180	m	M	,	<
31	m	M	,	<	81	m	M	,	<	131	m	M	,	<	181	m	M	,	<
32	m	M	,	<	82	m	M	,	<	132	m	M	,	<	182	m	M	,	<
33	m	M	,	<	83	m	M	,	<	133	m	M	,	<	183	m	M	,	<
34	m	M	,	<	84	m	M	,	<	134	m	M	,	<	184	m	M	,	<
35	m	M	,	<	85	m	M	,	<	135	m	M	,	<	185	m	M	,	<
36	m	M	,	<	86	m	M	,	<	136	m	M	,	<	186	m	M	,	<
37	m	M	,	<	87	m	M	,	<	137	m	M	,	<	187	m	M	,	<
38	m	M	,	<	88	m	M	,	<	138	m	M	,	<	188	m	M	,	<
39	m	M	,	<	89	m	M	,	<	139	m	M	,	<	189	m	M	,	<
40	m	M	,	<	90	m	M	,	<	140	m	M	,	<	190	m	M	,	<
41	m	M	,	<	91	m	M	,	<	141	m	M	,	<	191	m	M	,	<
42	m	M	,	<	92	m	M	,	<	142	m	M	,	<	192	m	M	,	<
43	m	M	,	<	93	m	M	,	<	143	m	M	,	<	193	m	M	,	<
44	m	M	,	<	94	m	M	,	<	144	m	M	,	<	194	m	M	,	<
45	m	M	,	<	95	m	M	,	<	145	m	M	,	<	195	m	M	,	<
46	m	M	,	<	96	m	M	,	<	146	m	M	,	<	196	m	M	,	<
47	m	M	,	<	97	m	M	,	<	147	m	M	,	<	197	m	M	,	<
48	m	M	,	<	98	m	M	,	<	148	m	M	,	<	198	m	M	,	<
49	m	M	,	<	99	m	M	,	<	149	m	M	,	<	199	m	M	,	<
50	m	M	,	<	100	m	M	,	<	150	m	M	,	<	200	m	M	,	<

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1	m	M	,	<	51	m	M	,	<	101	m	M	,	<	151	m	M	,	<
2	m	M	,	<	52	m	M	,	<	102	m	M	,	<	152	m	M	,	<
3	m	M	,	<	53	m	M	,	<	103	m	M	,	<	153	m	M	,	<
4	m	M	,	<	54	m	M	,	<	104	m	M	,	<	154	m	M	,	<
5	m	M	,	<	55	m	M	,	<	105	m	M	,	<	155	m	M	,	<
6	m	M	,	<	56	m	M	,	<	106	m	M	,	<	156	m	M	,	<
7	m	M	,	<	57	m	M	,	<	107	m	M	,	<	157	m	M	,	<
8	m	M	,	<	58	m	M	,	<	108	m	M	,	<	158	m	M	,	<
9	m	M	,	<	59	m	M	,	<	109	m	M	,	<	159	m	M	,	<
10	m	M	,	<	60	m	M	,	<	110	m	M	,	<	160	m	M	,	<
11	m	M	,	<	61	m	M	,	<	111	m	M	,	<	161	m	M	,	<
12	m	M	,	<	62	m	M	,	<	112	m	M	,	<	162	m	M	,	<
13	m	M	,	<	63	m	M	,	<	113	m	M	,	<	163	m	M	,	<
14	m	M	,	<	64	m	M	,	<	114	m	M	,	<	164	m	M	,	<
15	m	M	,	<	65	m	M	,	<	115	m	M	,	<	165	m	M	,	<
16	m	M	,	<	66	m	M	,	<	116	m	M	,	<	166	m	M	,	<
17	m	M	,	<	67	m	M	,	<	117	m	M	,	<	167	m	M	,	<
18	m	M	,	<	68	m	M	,	<	118	m	M	,	<	168	m	M	,	<
19	m	M	,	<	69	m	M	,	<	119	m	M	,	<	169	m	M	,	<
20	m	M	,	<	70	m	M	,	<	120	m	M	,	<	170	m	M	,	<
21	m	M	,	<	71	m	M	,	<	121	m	M	,	<	171	m	M	,	<
22	m	M	,	<	72	m	M	,	<	122	m	M	,	<	172	m	M	,	<
23	m	M	,	<	73	m	M	,	<	123	m	M	,	<	173	m	M	,	<
24	m	M	,	<	74	m	M	,	<	124	m	M	,	<	174	m	M	,	<
25	m	M	,	<	75	m	M	,	<	125	m	M	,	<	175	m	M	,	<
26	m	M	,	<	76	m	M	,	<	126	m	M	,	<	176	m	M	,	<
27	m	M	,	<	77	m	M	,	<	127	m	M	,	<	177	m	M	,	<

28	m	M	,	<	78	m	M	,	<	128	m	M	,	<	178	m	M	,	<
29	m	M	,	<	79	m	M	,	<	129	m	M	,	<	179	m	M	,	<
30	m	M	,	<	80	m	M	,	<	130	m	M	,	<	180	m	M	,	<
31	m	M	,	<	81	m	M	,	<	131	m	M	,	<	181	m	M	,	<
32	m	M	,	<	82	m	M	,	<	132	m	M	,	<	182	m	M	,	<
33	m	M	,	<	83	m	M	,	<	133	m	M	,	<	183	m	M	,	<
34	m	M	,	<	84	m	M	,	<	134	m	M	,	<	184	m	M	,	<
35	m	M	,	<	85	m	M	,	<	135	m	M	,	<	185	m	M	,	<
36	m	M	,	<	86	m	M	,	<	136	m	M	,	<	186	m	M	,	<
37	m	M	,	<	87	m	M	,	<	137	m	M	,	<	187	m	M	,	<
38	m	M	,	<	88	m	M	,	<	138	m	M	,	<	188	m	M	,	<
39	m	M	,	<	89	m	M	,	<	139	m	M	,	<	189	m	M	,	<
40	m	M	,	<	90	m	M	,	<	140	m	M	,	<	190	m	M	,	<
41	m	M	,	<	91	m	M	,	<	141	m	M	,	<	191	m	M	,	<
42	m	M	,	<	92	m	M	,	<	142	m	M	,	<	192	m	M	,	<
43	m	M	,	<	93	m	M	,	<	143	m	M	,	<	193	m	M	,	<
44	m	M	,	<	94	m	M	,	<	144	m	M	,	<	194	m	M	,	<
45	m	M	,	<	95	m	M	,	<	145	m	M	,	<	195	m	M	,	<
46	m	M	,	<	96	m	M	,	<	146	m	M	,	<	196	m	M	,	<
47	m	M	,	<	97	m	M	,	<	147	m	M	,	<	197	m	M	,	<
48	m	M	,	<	98	m	M	,	<	148	m	M	,	<	198	m	M	,	<
49	m	M	,	<	99	m	M	,	<	149	m	M	,	<	199	m	M	,	<
50	m	M	,	<	100	m	M	,	<	150	m	M	,	<	200	m	M	,	<

உயிரியலில் அதிக மதிப்பெண்கள் பெற வழிகாட்டும் குறிப்புகள்

1. 180 நிமிடங்களில், 150 மதிப்பெண்களுக்கு விடையளிக்க வேண்டி இருப்பதால், கால நிர்வாகம் (Time Management) மிக முக்கியம்.
2. ஒவ்வொரு பிரிவிலும் விளையபிரிக்கப்பட வேண்டிய வினாக்கள் அனைத்திற்கும் விடையளித்தாகி விட்டதா என உறுதி செய்து கொள்ளவும்.
3. Part A- விற்கு கடைசியில் விடையளிக்கலாம் என்று திட்டமிட்டு, நேரமின்மையால் எழுதாகல் விடக்கூடாது.
4. படங்கள் வரையவேண்டிய வினாக்களுக்கு தெளிவான, எளிமையான பாகங்களுடன் கூடிய படம் வரைக.

தாவரவியலில் மலர் வரைபடங்கள், நான்கு குடும்பங்களின் பொருளாதார முக்கியத்துவங்கள், முக்கியமான வேறுபாடு அட்டவணைகள், பல்வேறு சுழற்சிகள் ஆகியவற்றை நன்கு படித்து தெரிந்து வைத்துக்கொள்ளவும்.

5. மீண்டும், மீண்டும் கேட்கப்படும் வினாக்களுக்கு உரிய விடையை அவசியம் தெரிந்து வைத்திருக்க வேண்டும்.
6. பல்வேறு அறிவியலறிஞர்கள் மற்றும் உயிரியலில் அவர்களது பங்கு ஆகியவற்றை நன்கு தெரிந்து வைத்திருக்க வேண்டும்.
7. முக்கிய மான வேறுபாடுகள், ஒப்பீடு ஆகியவற்றையும், தெரிந்து வைத்திருத்தல் நன்மை பயக்கும்.
8. வினாக்களை புரிந்து கொண்டு அதற்குரிய விடையளிக்கவும்.
9. ஒரே மாதிரியாக உள்ள வினாக்களுக்கிடையே உள்ள வேறுபாடுகளை தெளிவாக அறிந்து வைத்திருக்கவும்.

எ.கா: ஹோமியோஸ்டேசிஸ், ஹீமோஸ்டேசிஸ்: ட்ரான்ஸ்டக்ஷன், ட்ரான்ஸ்பெக்ஷன்
கார்பஸ்லூட்டியம், கார்பஸ் அல்பிகன்ஸ்: ஹைபர்கிளைசிமியா, ஹைபோகிளைசிமியா.