



&= sg)Ps kZgsf]pQ/ lbg' xf] W ^  
s\_ af6, nf0{n} af/f, blv, df lj elQm nfu\$sf km/s km/s sf/ssf]  
kpf]u u/L 5 j fSodf cf`gf]ldNg]; fylsf]j Ofg ug{x}f] \  
v\_ tnsf]cgr5]d /x\$sf j fSox, nf0{cfj Zos j fSo 9fFf ; lxt  
kb; ^\it ldnf0{n}vg' xf] W  
lj Bfylx? lj bzdvl ePsf] 5 . pglx, n] : j bzd df ; Defj gf bVg  
5f\$df] . of] lj 8Dagfsf] lj ifo xg\ . ; /sf/ rflxvfv] s] x]]  
a:gePsf]5g\ dh] t sxl a%g ; sg . xdf]b]z t j f: t j df ; g  
km]g]cf]g kf]xg]t .

\*= sg)b0{kZgsf]pQ/ lbg' xf] W @x\$0\*  
s\_ cfj Zos s'f yk36 u/] s/of j fSonf0{cs/of / cs/of j fSonf0{  
s/ofdf kl/j t g ug{x}f] W  
ltdl cfp]eP d hf65' . oxfFhf] ; s}cfpg ; \$5 . ci6gf/fgn]  
s; hf0{ ; flv]g\ . ToxFt sf]kl klg a:bf /xg]5g\ . pglx, n]  
ldlxg] gu/\$f xfgg\ ef0n]bf\$Bf nuf RofT\$ . ltdln]xldlnf0{  
bVdf] lj r/f, jL/]csfnd]d'of].  
v\_ cfj Zos s'f ldnf0{j fRo kl/j t g ug{x}f] W  
d laxfg rFB]p75' . d lbg]kR5]ggxf0 ; lSbg . gxf0w]f0 ; s]  
lrof lkpg t s; n]eN5 / < cfm] t lrof cfm]ksf0G5 . lrof  
vfPKI5 k':tsx, kl9G5g\ sn]h t lbg]kR5]bul/G5 . k9g t dg  
nufPs}x]F. glthf rflxfultnf]Nof0Psf]5g] .  
u\_ Pp6}j fSodf ; Zn]f0f ug{x}f] W  
dnf0{j fSo ; Zn]f0f ug{cfof]. kZgdf rf/cf]f j fSox, lb0Psf  
lyP . ; Zn]f0f ubf{ dh] ; of]hs /flvgf. dh] ; lhn}u/L j fSo  
; Zn]f0f ul/lbPF.

(= lb0Psf]af]w kf7 k9L cGtodf ; flwPsf kZgx, sf]5f]5l/tf]pQ/ lbg'  
xf] W  
vfBfGg pTkfbgsf lglDt vghf] ul/g] afnlgfnl nuf0g] dnhn xflng]  
uf\$dh] ul/g] afnlgfnl lemf0g]cf]b ; a}sfdsf] ; fd]xs gfd s[if xf].  
s[if sfo\$ lglDt v] / af/L rflxG5g\ l; Ff0sf] cfj Zostf kb\$ /  
cf]h/x, klg rflxG5g\ v]l ul/g]/ vf; u/L wfg /flkg]hldgnf0{v]  
elgG5 . of]u/f u/f kf/L agf0Psf]xG5 . gx/ / shf\$]kfgl nllg]u]l v]  
/ kfgl gnllg]clg cfszfaf6 kfgl k/\$f]df\$5 fl]k v]l ul/g]6f/L v]  
u/L v]sf b0{k\$ / 5g\ gx/ shf]gnllg]/ wfg gkm]g]cfa]b hllufnf0{

af/L elgG5 . o; sf klg b0{k\$ / xG5g\ -!\_ kxf8sf km] ÷ leQdf xg]  
le/fnf]k/\$f] tyf kfgl gnllg]gcl8g]kfvf]af/L jf el/ af/L / @\_ ?v,  
af] lj ?j f cflb km]B] afnl nufpgsf lglDt vgvfg ul/Psf kxf8L kfvfsf]  
=leQsf]vfl/of jf/L . pj {f zlQmsf]cfwf/df v] j f s[ifeld rf/ k\$ /sf]  
xG5 - cAan, b]od, l; d / rxf/ . shf]j f gx/af6 l; Ff0 ; lj wf ku\$]f]  
j if]f b0{jf ; f]Gbf a9L afnl nllg] dlennf]df6f]ePsf]c; n, pDbf /  
pAhfp eldnf0{cAan v] elgG5 . o:tf]v] t/f0{/ leql dw] df xG5 .  
bf]f]bhf\$]j f cAaneGbf sd pAhfp / l; deGbf a9L pAhfp xg]vfnf]  
v] jf hlluf hldgnf0{b]od elgG5 . o:tf]hlluf t/f0\$]dflyNnf]efu,  
leql dw]z, kxf8sf sxl 7fpF/ pk]osfdf klg elG5 . vfBfGgsf]pAhgl  
/fd/L gxg]t] fl]bhf\$]v]nf0{l; d elgG5 . o:tf]v] kxf8L efudf xG5 .  
shf]gnllg]/ v]lsf lglDt a; f]df e/ kg[kg]clg ; Sv]df6f]ePsf]/  
; aeGbf sd; n v] rxf/ xf]. gkfnsf pRr kxf8L e] / tNnf]lxdfnl  
e]df o:tf]v] /x\$]5 . v]lkftlsf lglDt v]df l; Ff0 ug{cfj Zos  
xG5 . gkfndf k/Dk/fut l; Ff0sf l; 9L -v]sf]dflyNnf]u/fdf kfgl hdf0{  
qmdz]tnit/sf u/fdf kfgl k6fpg]tl/sf, 0gf/, 6oaj]h, shf]cflbsf  
; xfofn]v]l ug]rng rln cfPsf]5 . gkfnsf t/f0{tyf leql dw]zdf  
gx/af6 l; Ff0 ug]cfw]gs klqmsf]klg lj sf; e0 /x\$]5 . gkfnlx, n]  
v]lkftl ubf{xnf] h]f, sf]fnf] 8Nn]Ff] xhf/L, ln8Nsf] bfb] rfb] sbf]  
x]F, of, slrof vkf{cflb cf]h/x, kpf]u ub\$g\ gkfn s[if kw]fg b]z xf]/  
oxf]f clwsfz hg]t s[ifdf lge} 5g\

kZgx, M

!\_ v] / af/Ldf s]km/s 5 <  
@\_ cAan, b]od, l; d / rxf/sf nlf0f s]s]xg\  
#\_ gkfndf s]s:tf l; Ff0 k]ffnl k]ngdf 5g\  
\$\_ gkfndf k]ngdf /x\$] s[if cf]h/x, s]s]xg\  
%\_ cy{:ki6 xg]u/L .kfvf]af/L / ..vfl/of af/L nlf0{j fSodf kpf]u  
ug{x}f] \  
!)= tnsf]cgr5]d k9L dVo dVo kfF aBf l6kfb ug{x}f] W %  
slj ; [6f xf] pm ; [16 u5{ . ; o k^astdf n]bf klg hg s'f eGg ; lS5g  
slj n]To; nf0{Ps}k^astdf cem /fd/L eGg ; St5 . k]ftsf Ps]ls/ofdf  
; f/f / ^ / ;ksf]s:tf] /df0nf]9f\$] pl3q5 . Ps}ws]lkpf d':sfgdf  
; DkOf{k]l t k\$6 xG5 . cdfsf]Pp6}sfvdf cfzlj fl]sf cg]t k]mx,  
k]s(5g\ ; [6sf]snfsf]t] fl]cf]fn]cs]z; k / cs]clek]fo b]v]t5 . Ps  
hg] cGtl/lf ofqln]eg\$] lyP- oxf]af6 dh] ; [16 ; fl]bo\$]hf]lj lRq / ^ /

cfef bly\$]5; To; sf]j0f6 d ug{; lSbg, k/Gt' sljsf ljr/q j f0fldf  
To; sf]dlxdf dvl/t x65 . j zfvL /ftdf sk'sx' ub{sf0nl dfgfFj :do /  
cfZrod0 e0{kvof vfh] p8]emP85]/ j ; Gtnf0{af]hfp5]. laxfgl kv  
; 6sf ls/0fx; h; /L l5la{fP/ cfpq yfN5g\ To; /L g}wflagl r/lst  
sns07af6 p; sf lr/lal/ j f0flx; lr/lal/g yfN5g\ - hxfFc? Ps zAb  
klg aff]g ; Sbg]lslj Toxf; x; |; Gb/ ; x; |; /n zAb aff]g ; Sb5 .

!!= sg)Ps kZgsf]pQ/ lbg'xf] \ %  
s\_ 5f]lsf]lj j fxsf nflu cfj Zos kg]lgd6qoff kqsf]gdgf agfpg'  
xf] \  
v\_ ; l:dtf k':ts e08f/ slitk/n]; fem k\$zfzaf6 kf7ak':tsx;  
dufPsf]Joxf]f vhf]p5]Ps Jofj ; flos kq n]v'g'xf] \

!@= gkfnfd ; ~rf/ dflwdsf]j t6fg cj :yf zlif\$df !%) zAb ; Ddsf]  
l6kkofl n]v'g'xf] \  
cyjf  
tkf0f]; fylx; ; E ugePsf]sg)Ps ; f:s[ts j f ko6slo lfg]sf]ed0fsf]  
kl]tj]bg tof/ kfg{xf] \

!#= tn lb0Psf d]w]sg)Ps zlif\$df #)) zAbdf g36f0{lga6w /rgf ug{  
xf] \M  
s\_ lj B'tls/0f  
v\_ ; dosf]dx]j  
u\_ gful/s clwsf/ / st{0

!\$= tn lb0Psf].axhf sfhlsf]; kgfl gf6ssf]cz k9L cGtodf ; flwPsf  
kZgsf]pQ/ lbg'xf] \ !)  
cFklxn]k}f geP dflg'kYof]. dfu] klg s; h]; f]em]dvn]glbPsf]eP,  
oltsf ; x/sf 3/x; 5B]lyP lg, 3gn]7f\$], tflrf kmf]], vf] ] rf]] eP  
klg Nofpg'kYof]. Pp6f Hofg df/] Hofgdf/f alg /xg' ; 6dfdf t rf] xg'  
xhf/ ugf a] . xfdl Hofgdf/f xff Hofgdf/f . lsg rf]d]f< lsg n6df]f<  
rk nfu ca /fP/ 5ftl g}kmf\$]klg s]< hf]la]of]. ]of]uof], ]of]uof]  
==

d]f]sqf]cfzf, sqf]; kgf, ; a}rsgfr/ eof]. o; j l/h]s]l k/f uYof]  
dnf0{olt lj Zj f; lyof]; #f/nf0{abn] gofF^an]kfl]lbg] gofFhlj gn]

5f0lbg] ex]Nof]o:tf] nfos, o:tf] of]lo dflg; . xfdln] Hofg df/ lbofF  
vfln ul/aln]l  
s\_ dflysf]kf7df s; n]s; nf0{lsg Hofgdf/f eg\$]xf]< kf7sf  
cfwf/df lj Zn]f0f ug{x] \  
v\_ o; kl5 gf6sdf s]s:tf 36gf e0{gf6s ; lsof]< s]gf6ssf]  
; dfkg pkoQm 5 <

!%= sg)b0{kZgsf]pQ/ lbg'xf] \ @x%0!)  
s\_ tnsf]slj tfz k9L cGtodf ; flwPsf kZgsf]pQ/ lbg'xf] \M  
lrofsf]lslnl h:t]esesl plDn /x\$]b]M/L dg clg  
/S; lsf aff]nx; ; t l/IQ /x\$]af]fn'of]gnf0{  
lj j ztfsf]ef\$]yfnl / srf]fx?df k:s]  
; Gtkt d':sfgx; n]pbf; L affB /lx5  
sf65L, e68L yflk /lx5 .

kZgx; M  
!\_ ; Gtkt d':sfgx; n]pbf; L affB /lx5l eGgsf]tftko{s]xf]<  
@\_ sf65lsf]dg lsg lrofsf]lslnl h:t]esesl plDn /x\$]xf]<  
#\_ dflysf]p4/0fsf]dh efj s]xf]<  
\$\_ k|t't kf7df lrofsf]lslnl / dgnf0{s; /L thgf ul/Psf]5 <  
%\_ lj j ztsf]ef\$]yfnl srf]fd k:sg'eg\$]s]xf]<

v\_ tnsf]syfz k9L cGtodf ; flwPsf kZgsf]pQ/ lbg'xf] \M  
æ:s:tf]s/f u5{ \abl/of Ue xSsf cln k/ ; fb]d]g]n]t6s] eg]  
- æ of]dh/ -d]hb/\_ sf]s/f xf] s6f0, /f]k]f]lg/f0df ; f/fn]hf]  
hf]hxfFk]P dh/x; t; Nn u5g\ s; \$]dh/ s; h]g56fpg]/  
xfgyfk gug]; #f/sf upf]sf]rng g}xf]. s6f0sf]avt, ; f]j f  
dh/L al; 5, s; /L e65; \k7f0 b]m < A

kZgx; M  
!\_ dh/ t; Nn ug{eg\$]s]xf]<  
@\_ ; #f/sf upf]sf]rng s]xf]<  
#\_ dgf]n]lsg ; f]j fnf0{gk7fpg]s'/f uYof]<  
\$\_ dflysf]egf0 s; n]sf] E sx]feg\$]xf]<  
%\_ o; e6f klxn] syfdf ePsf]Pp6f 36gf plN]v' ug{xf] \

u\_ tnsf]lga6wfz k9l cGtodf ; flwPsf kZgsf]pQ/ lbg'xf] W  
ægf/Lnf0{g/ssf]dh 9f\$g7fGg]/ hljgsf ; ah; f] lfd :ql  
k?ifsf] a/fa/ xs xgk5{eG]Pj d\k5f6] bZsf cf0df0hf0{3/  
gfpBf] %ofnvfgf leq 8la /xg glb0{ ; fdfhs lfd ; d;  
xf}ofpgx; ; flxto tyf /fhglit cflbtkm(nfu\$ cfwgs ojfx;  
g}xg\

kZgx; M

!\_ .gf/Lnf0{g/ssf]dh 9f\$g7fGg] eG'sf]tflko{s]xf]<  
@\_ cfwgs ojfx;df :ql k?ifsf lj ifodf s:tf]b[6sf0f /x\$]5 <  
#\_ dflysf]; Gbeaf6 gkfnl ; dfhsf]s:tf]tl;j / k|t't ePsf]5 <  
\$\_ n\yssf]gf/L ; DaGwL dfGotf s:tf]/x\$]5 <  
%\_ dflysf]cgR5]df n\y]sn]JoQm u/\$]lj rf/ tkf0f0{s:tf]nfl0f}

!^= xf/lht sfysf kfqx; 3/x' / dgf\df s; sf]lht ePsf]5 < cf^gf]  
wf/0ff lbg'xf] W %

; dff/t



Pre-Board Exam 2070

siff M !!  
; do M # 366f

lj ifo M clgj fo{gkfnl

kOff{ M !))  
pQloff{ M #%

; v

!= sg)Ps kZgsf]pQ/ lbg'xf] M %  
s\_ tn lbOPsf j of{sf]pRrf/of :yfg / kPig 5bdfpg'xf] M  
a, 9, b, o, d  
v\_ tn lbOPsf zAbx{sf]clf/ ; Argf / ; aVof ; d: b]fpg'xf] M  
cGofo, lj Zn]f, cyzf:ql, jfgZj /, c-hhl

@= z4 u/l kgn]g ug{xf] M %  
dn]zof 068f]g] of / gkfn Plifof dxfbzdf 5g eGgxf] \t, ; l^vfk/ /  
j^anfbz sg dxfbzdf k5g\; Q]s/f s]xf]eg]lo kgl oxl dxfbzsf  
dhs xg\

#= tnsf]cgR5df /yfa'sg ul/Psf zAbsf]zAbj u{kixrfg u/l n]vg'xf] M #  
ltdf] 5f]lx{ cf^g}bfh{e0 bVbf klg af3 g} b]v] emF t; [ ?b} ltd}  
v]snfdf 6fpsf]n'sfpg cfp5gV]. ltdln]cf^gf]dtdfsf]lsl/of v]f0gf]  
ltglx{nf0{<

\$= tnsf]cgR5dfaf6 b0{b0{cfbf tI; d / cfuGt's zAb l6kg'xf] M @  
lj Bfyl{ cWoogZln xgk5{. clxn]pglx{sf]Wofg a9l dfqdf cfwlgs  
km] g / t8se8sdf nfu\$]5 . dfaf0n / km] aS t clezfk g}ag\$  
5g\ o; af6 hf]uP/ sfd ug{; s]t /fd}xGyof]l

%= sg)b0{ kZgsf]pQ/ lbg'xf] M @x#0^  
s\_ tnsf pk; u{/ k]oo nuf0{Ps Ps cfbf zAbldgf ug{xf] \  
pk; u]gf, b'; \ cf  
k]oom pjf, cf0nf] Tj

v\_ tnsf]cgR5dfaf6 5 cfbf ; lGwoQm zAbx{ l6kfb u/l lTgsf]; lGw  
lj R5df ug{xf] M  
; fxl; s sfd ug] dfG5] g} ; km dfG5] xf]. o: tf] dfG5]h] dfq  
cfk]gf] dgf]y k/f u5{. p; n]cy{pkfhgdf klg ; km]tf k]kt  
u5{. p; n]xF nf] r]k]sf; fy ; bafj kOf{JoJxf/ u/] ul/dfdo  
5lj lgdff ug{; S5 . o: tf] lj z]f]tf ePsf dfG5]h] dfq of] b0{  
lbgf]hglnf0{; Gb/ ; vL / ; /lft /Vg ; S5 .

u\_ tnsf]cgR5dfaf6 lTg ; d:t zAb / lTg lAtj zAb l6kl ; d:t  
zAbnf0{lj ux ug{xf] V lAtj zAbdf b]k]f]Psf]cz 5bdfpg'xf] M  
cf]ntkm]t' s'/fdf cdNo ; do latfpg] dhSn] cu]lt ln5g .  
cfk; l em]u8fsf] hfnf] r6fr6 sf6b} clj Zjf; sf vf8nx{  
/ftf/ft kg{cfj Zos 5 . bZlgdf]fx{ d]ldxfsnl klg ; Sgk5{.  
j/k/ ufpB/ sgfs]krf ; ajt/sf ; d:of 6fn6h kf/l ; ahf0{  
d/db]t ug{; Sgk5{.

^= sg)Ps kZgsf]pQ/ lbg'xf] M %  
s\_ tnsf]cgR5df /x\$ j fSonf0{fSo 9fFf ldnfP/ c1ft eT  
sfndf kl/j tG ug{xf] M  
k]nf]ufp]ef efjgf gfd u/\$l sPl a:5]. p; nf0{; ah]c]to]t}  
1fgl / c; n eg] lrg\$ 5g\ pm ah]fah] la/fdl eP klg k9f0df  
; r] 5]. k/lifdf 8/fpg]/ clltg]u/\$fn]k/lifdf p; sf]c^s  
sd cfp] u/\$] 5 . o; k]nsf] k/lifdf r]fxP; n] w] /fd]  
glthf Nofp5].

v\_ tnsf]cgR5df /x\$ j fSox{nf0{fSo 9fFf ldnf0{axj rgdf  
kl/j tG ug{xf] M  
u/\$] sfd 7ls 5 . ltdf]afgl c; f]w}/fd] 5 . d]l alxgl klg  
ltdl h:t}1fgl gePsl xf]gg\ . ltdln]lbPsf]to]l]stfa t w]}  
/df0nf] / p]s[6 /x\$ . p; sf] cglafgl r]fx]ltdlnf0{ s:tf]  
nflf]<

&= sg)Ps kZgsf]pQ/ lbg'xf] M ^  
s\_ tnsf]cgR5df /yfa'st zAbx{sf]sf/s / lj elQm 5bdfpg'xf] M  
cf^g} bZdf elj io b]vg ; Sgk5{. cf^g} xftn] bZnf0{ l; Efg{  
; Sgk5{. kvfh]Toxfaf6 ox]fDdsf]af6]b]v]P t/ xfdln]s]ug{  
; Sof< cfk]nf0{dfq ; w]vof bZsf lglD t s]l ug{; s]f]f. ca  
x]dl sndn]bZsf nflu sfd ug{cl3 ; gk5{. ta dfq of w]ldf  
kl/j tGnf0{leqdfpg ; S5f.

v\_ tnsf]cgR5]df kb; <sup>a</sup>ult gldn}f j fsonf0{ldnfP/ kgn}vg ug{xf]  $\mathbb{N}$   
d}f]; fylx<sub>2</sub> cfof]. pglx<sub>2</sub> Ps x{tf ot}a:5 /]. pglx<sub>2</sub>sl cfd  
5gV]. ca xfdlnf0{v<sub>a</sub> /df0nf]xg]5g\ xfdl ; a}ldn} dhfn]  
v}5 .

\*= sg}b0{kZgsf]pQ/ lbg'xf]  $\mathbb{N}$  \$x@0\*  
-s\_ tnsf hl6n j fsox<sub>2</sub>nf0{cf7 j 6f ; /n j fSodf 5~~6~~dfpg'xf]  $\mathbb{N}$   
tkf0f0f0{; b}fosf]bZ<sub>o</sub> xg]dg 5 eg]gu/ sf~~6~~ hfg'xf] \ gu/  
sf~~6~~af6 ; b}fo /fd/L xg]{kf0G5 eg]j/k/sf]bZ<sub>o</sub> klg b}M65 .  
hg dfG5h] gu/sf~~6~~sf] ed0f u5{p; n] ; b}fosf] bZ<sub>o</sub> xQkQ  
la; b} . gu/sf~~6~~n] ko6g Joj; fo a9fPsf] 5 / :yfglo  
dfg; x<sub>2</sub>sf nflu cfo cfhg}sf]af6f]klg vhfPsf]5 .  
-v\_ cfjZos s'f yk36 u/} tnsf j fsox<sub>2</sub>nf0{j fRo kl/j t<sub>g</sub> u/L  
kgn}vg ug{xf]  $\mathbb{N}$   
; KtfxGtdf ; fylx<sub>2</sub>; E ; x/ u0G5 . ; x/df l; g}df x}l/G5 . b0{rf/  
lbg ToxLfa; } /df0nf] ul/G5 . cfklnf0{rflxg] ; fdfg lslg65 .  
csf]xktft/ dfq 3/ lkm/G5 . ; x/sf /demdaf/]3/df a}hlj :tf/  
nufP/ ; g}f0G5 . ; fgf]ofqf j QfGt n}v} klqsdf klg 5kf0G5 .  
csf]; KtfxGt s; /L dgfpg]eGg]lj ifodf kgM ; fl}rG5 .  
-u\_ tnsf j fsox<sub>2</sub>nf0{Pp6}j fSodf ; Zn}f0f ug{xf]  $\mathbb{N}$   
r/fn]cf^gf]uB cfk}agfp5 . d' fn]cfk}a:g}kj fn cfk}v65 .  
d's kf0flx<sub>2</sub> cf^gf]cf>o:yn cfk}agfp5g\ . r}gzln dfgj  
xfdln]cfk}bZ cfk}fagfpg'k5{.

(= tnsf]cgR5] k9L cGtodf ; fl}wPsf kZgx<sub>2</sub>sf]5f}f]5l/tf]pQ/ lbg'xf]  $\mathbb{N}$  !)  
Df]g; sf dgdf p7g] ; <sup>a</sup>ultdo efj gfx<sub>2</sub>sf]Hj f/ efifsf] d}fmod cEfnl  
allof]eg]Tof]slj tf xG5 . To; h]slj tfsf ltg s}bb~~6~~ t}j xg\ - efj gf,  
; <sup>a</sup>ult / efiff . ; flxTosf slj tf afx}ssf uB h:tf ljwdf klg dfgj  
efj gf / efifsf]; e}f} xg]ub5 t/ ToxF; ult ck}lft x~~6~~ . uB ljwdf  
syf, pkGof; cflbn] 5f}f] jf nfd] syfsf] cfw/ ln0{ hljgsf  
efj gfx<sub>2</sub>nf0{ JoSt ub5g\eg] gf6sn] efj gfsf] gf6sls/0fnf0{ g} dVo  
<sub>2</sub>kdf cEfn5 . slj tfn] eg] noflds ; <sup>a</sup>ult jf clnslt pGdSt uB  
; <sup>a</sup>ultsf]cfw/ gln0{; v 5g . To; h] ; flxTosf c? ljwfaf6 slj tfnf0{  
5~~6~~ofpg]cfw/ o; n] cEfn]dfgj lo x}fosf]; <sup>a</sup>ultdo wf/f g}xf]. of]  
wf/f Hofbf lgoldt eof]eg] 5G6 a6b5 clg Hofbf dSt /Xof]eg] uB  
slj tf t/ 5G6f}4 slj tf jf kBdf klg noflds cgZf; g dfq x~~6~~ .

o; df klg ; <sup>a</sup>ultsf :j tGq ; Defj gfx<sub>2</sub> /lx /xG5g\lsGt' sd dfqdf .  
To:t}uB slj tfsf]dSt ; <sup>a</sup>ultdf klg noflds cgZf; gsf]Gogtd t}j  
/lx /xG5g\ . cfoyf Tof]uB slj tf ge0{lansh uB aGg k}b5 . To; h]  
Pp6fn]w}yf} cgZf; g / sd :j tGqtdf cf^gf]pRr nofldstfsf]lj G6'  
e}b5 eg]csf]sd cgZf; g / a9L dSttsf]kl/lwdf ; <sup>a</sup>ultsf]cs}  
; kmntfsf]lzv/sf]c}j}f0f ub5 . slj tfsf]cfb<sub>2</sub> k ult lyof]/ Tof]  
; <sup>a</sup>ultkwfg /Xof] . ults} sf}yaf6 hlGdPsf] slj tf lzzh] qmdzM  
; <sup>a</sup>ultnf0{; fl}osf]; 6df ; fwg agr0{efj gfsf]; Id ofqdf snfsf gofF  
cfofdx<sub>2</sub> vf}of]eg]uB slj tfsf]o; nfd]ofqdf uB / kBsf ; f}wdf  
uB slj tfsf]gofF; ldfGt k}zsf]cf]j isf/ eof]. o; k}zdf ; <sup>a</sup>ult cem  
uf0f e0{/lx g}/x}f]5 t/ efj gfsf Hj f/df To; n]slj tfsf snfids gofF  
; Defj gfx<sub>2</sub> Vf}b)5 .

### kZgx<sub>2</sub> M

!\_ slj tf eg}f]s]xf]/ o; nf0{c? ljwfaf6 s}h]cnu kfb5 <  
@\_ uB / kB slj tdf noflds ; <sup>a</sup>ultsf b}l6n]s]km/s kf0G5 <  
#\_ ult / kBdf s]cGt/ /x}f]5 <  
\$\_ uB slj tsf]cf]j isf/ s; /L eof]<  
%\_ dflysf]cgR5]df /}v<sup>a</sup>lSt ZAb / ZAbfj nlsf]cy{s]xf]<

!)= tn lb0Psf]cgR5]nf0{Ps t}llofzdf ; <sup>a</sup>N}ks/Of ug{xf]  $\mathbb{N}$  %  
lj sf; jfb l}6sf}f cg; f/ 0Zj/sf] ; Qdf kZglrXg b}vf k/k15  
cjwf/0fddf c8}f]cfbz}fbsf ; 6df j:t}fb jf oyfy[fbn] an kfg  
yf}of] . lsgeg] 8fljGsf] lj sf; jfbn] k\$[tnf0{ g} kwfgtf lb5}  
k\$[jfbnf0{bfz}gs cfwf/ kbfg u{/sf] 5 . 0Zj/sf] ; 6df k\$[t /  
kfs[ts lgodn] dx}j kfpk15 k\$[jfb l bZ<sub>g</sub> b}vf k}of] To; df  
cfbz}fbsf] :jkg dxn uNof}guh} 9Ngsf ; fy}j:t}fb ; d} b}vf kl/  
; s}f]5 . j:t}fb; E k\$[j fbsf]klg ; xdt g}5 . cjZo g}j:t}fbn]  
j fXo oyfy}hf} lbPsf}f k\$[jfbn] k}ofl dfqsf]leql oyfy}nf0{klg  
5f}f] . ha df]g; Ps k}ofl dfq /Xof] ToxFdf]g; sf dgdf 0Zj/sf]  
l; x; g afE} /x<sub>g</sub> . o; }qddf cit oyfy[fbsf]pbo ePk15 rflx}afXo  
j:t' oyfy}nf0{eGbf leql dgsf]oyfy}nf0{hf} lbg yf}nof]. o; df]g; s  
oyfy}df klg cfz}fbnf0{7fp/x<sub>g</sub> . cit oyfy}fb j fXo oyfy}df cfwfl/t  
j:t}fbnf0{eGbf leql cd't{oyfy}nf0{dx}j lbg] k\$[j fbsf] a9L glhs  
5 . To; h] cit oyfy}fb cfz}fb / j:t}fb b} } E c; xdt 5 . cit  
oyfy}fbsf]cfw/ lznf km}o8sf] :jkg dgflj 1fg xf]eg]klg xG5 . o; n]

dfgj dgdf pAh\$fi cfsi:ds OR5fx2nf0{ dgsf c; lldt sNkgfsf  
t/aux2nf0{/ :j lkg n ; #f/sf leql oyfyhf0{; dyg ul/ /x\$fi xG5 .

!!= sg}Ps kZgsf]pQ/ lbg'xf] \M %  
s\_ cf^gf]6f]hdf vfg]kfglsf]wf/f h8fg kl/kfpmFegl :yfglo vfg]kfgl  
sfofnosf kdVnf0{lgj hg nVg'xf] \  
v\_ ev{ }ahf/df cfPsf]pRr df=j= txsf]clgj fo{gkfnl lj ifosf]  
; xof]ul k':tssf]klqsdf lgsflng]lj 1fkgf]gdgf agfpg'xf] \

!@= ..sfgg / gful/s clwsf/! zlif\$df !%) zAb ; Ddsf]l6k0fl nVg'xf] \M %  
cyjf

cffkngf]lj Bfnodf ePsf]j flif\$fi; j tyf k'/:sf/ lj t/Of sfo\$dsf]  
kl]tj hg tof/ kfgkfi \

!#= tn lbOPsf dWo]sg}Ps zlif\$df lga6w nVg'xf] \M !)  
-s\_ :j R5 jftfj/Of :j :y hlj g  
-v\_ dlxfn lzlf  
-u\_ d]f]hljgsf]nlo

!\$= tn lbOPsf]Ps lrxfg pkGof; sf]cz k9L cGtodf ; flwPsf]kZgsf]pQ/  
lbg'xf] \M !)  
dnf0{klg yxf 5 olusf]ult, :j tGqtsf]dxTj / dfgj OR5fsf]  
s/f . t/ d :j tGqtsf]gfpEf h; n]hf] E h:tf]klg kd u/] lxB\$fi xG{  
rfxGf. kPsf] klg dxTj xG5, p; sf lglDt klk kPsf / aGwgsf]  
n]f]hfyf, dfkb08 xG5, ; ldf/vf xG5, lj Wfg xG5, ; kfg / skfg xG5 . ol  
; a s'/nf0{af6f]hf0{ ta/nf0{gf3} dflg; lxBg ; Sbq , kfpBq . To; h]  
hljgdf cleefj sx2 xg' a} }5, of; feflosf]s/f xf] / cleefj sx2n]  
o; s'/fsf]Vofn lj rf/ /fd/l k%ofpg'k5{.

**kZgx2 M**

s\_ kPsf lj ifodf pkGof; sf/sf]wf/Off s:tf]kfpgeof]<  
v\_ dflysf]egf0 s; sf]xf]/ pQm egf0 sltsf]plrt 5 < cf^gf]/fo  
lbgxf] \

!%= sg}b0{kZgsf]pQ/ lbg'xf] \M @x%O!)  
s\_ tnsf]slj tfz k9L cGtodf ; flwPsf kZgsf]pQ/ lbg'xf] \M  
cfsfz 5g]6fs/f xfd]e} e]6Gg  
kf]vL xfd] kvf\$fi kf0nf d} d]6Gg  
laDem]f sxfFk] \$fi]k]h]p]hofn}g/x]

gkfnl xfdl /xf]f sxfFk]h]p]hofn}g/x].

**kZgx2 M**

!\_ cfsfz 5g]6fs/f e} e]6Gg eGgsf]tftko{s]xf]<  
@\_ k] \$fi]klxfn]p]hofn]n]sg s'/fsf]afw u/fp5 <  
#\_ kvf\$fi]kf0nf d} d]6Gg eg\$fi]s]xf]<  
\$\_ s]ePdf gkfnlsf]cl:tTj /xG5 <  
%\_ pQm Znfsf]dh efj s]xf]<  
v\_ tnsf]syfz k9L cGtodf ; flwPsf kZgsf]pQ/ lbg'xf] \M  
Ps /ft Itgl vf0k0{; Tg]oTg ul/ /x\$fi lyP . Itgsf dgdf w}]  
k\$fi]sf]lj rf/ cfpg yfNof] . Itgsf] hljg s; h] c; kmn eGg  
; Sbq . ; fg]lTgf]kfl klk sdf0 xfn\$fi lyP . ?lkofFhDdf ubf{  
c?x2n]u/] h:tf] /]lx2nf0{lk/ klk kf/og\ . Itgsf] sf]l a]l  
lyPg, oxl Itgsf]; Gt]fsf]7hf]sf/Of lyof]. \$% j if\$fi]oqf]nfd]  
hljgdf Itgn]s; hf0{cf^gf]zq' agfPgg\ . o; sNkgfn]Itgsf]  
tGbf]sf]; v a9f0 /x\$fi ahfdf Itgldfly n6Xlsf] kxf/ kYof] .  
; e]uj z n6Xlsf]dVo rf} Itgldfly k/g . kxf/ stf]Itgldfly  
kxf/ u/\$fi]xf]ls leQdfly - of]56dfpg uxf/f]lyof].

**kZgx2 M**

!\_ s[Of /fo s]ul//x\$fi lyP <  
@\_ s[Of /fosf]hljgnf0{s; h]klg c; kmn eGg g; Sg]sf/Of s]xf]<  
#\_ s[Of /fosf]; Gt]fsf]sf/Of s]xf]<  
\$\_ s[Of /fosf]tGbf]sf]; v a9Gsf]sf/Of s]lyof]<  
%\_ sxfFn6Xl kxf/ eof]<  
u\_ tnsf]lga6wfz k9L cGtodf ; flwPsf kZgsf]pQ/ lbg'xf] \M  
j f:tjdf xdf]vfB ; a\$6 eg\$fi]eft ; a\$6 xf]. xfd]ef\$sd/L  
eftd/L xf]. wfg gkMg] 7fpdf cfn' km5, cfn' gkMg] 7fpdf  
sf]f] sf]f]gkMg] 7fpdf sfugf], e} kb]z]t/ pjf, s? kmNng\  
lxdv08nf0{5f\$} s]l gkMg]d?eld g}t gkfnf 5g . t; y{  
s]if vfB6g / vfB ; /lfsf af/df lj sNk vflg ca l9nf0 ug{  
x6g . o; sf nflu 1fg / lj 1fg dfq xfg dgflj 1fgdf klk  
klj tGsf]cfj Zostf 5 . slj n]eg]em]cf^g}kfv/fsf]cfwf/ /  
cf^g}k]fnfsf]; #f/ vflg]ahf cfPsf]5 . ; dfh / ; /sf/ ; ah]  
k/lge{tfsf]; #sf/nf0{Toflg ; sgg\eg]ef\$sf]; fdgf ug{kg]  
l:ylt 68sf/f]5 .

**kZgx2 M**

!\_ eftd/L eg\$fi]s]xf]<

@\_ gkfndf sxfsxfFs]s]kN5 <  
#\_ dgflj 1fgdf kl/j t[gsf]cfj Zostf 5 eG'sf]tflko{s]xf]<  
\$\_ xfdl cufl8 s:tf]; do cfPsf]5 <  
%\_ s]ePg eg]ef\$d/Lsf]; fdgf ug[kg]:ylt b]v65 <

!^= ef\$d/laf6 aRg gkfndf s]pkfo ugknf{< cf^gf]/fo lbgxf] \

; dflkt