

IJ: TZ6 IX1F6 IGI FDSzLGL SRZL  
VF6N S'IQF I JGJI; '8L4 VF6N



OFFP 5LP 5LP 58[,  
IJ: TZ6 IX1F6 IGI FDS

☎ 0\_Z&)ZvZ&Z#! &4 OS; 0\_Z&)ZvZ&Z#! \*  
E.mail : [dee@aau.in](mailto:dee@aau.in)

HFPGP VFS'I JIJXIGq hSv! \*q SFI 'GMW q q! # TFPZ ( q! \_qZ\_! #

5JIT4  
IJEFULI ; XMMGvJvIJ: TZ6 ; , FCSFZ ; IDITGF ; eI MTZ0

IJQFI ov IJEFULI ; XMMGvJvIJ: TZ6 ; , FCSFZ ; IDITGL cc; tTZDLcc s! \*f  
ZIJ kT] 5J'GL A'PSGL SFI 'GMW

; IJGI p5ZMST IJQFI VgJI [H6FJJFG]S' VF6N S'IQF I JGJI; '8L4 VF6N V'UT ; DFJ08 ccKcc  
IH<, F sVF6N4 JOMNZF4 VDNFJFN4 GOLI FN sB'PF4 NFCMN4 UMWZF s5RDCE, fFGF S'IQF4 AFUFI T4 5X'5F, G VG[  
Dt: I MVMU V'SDNGF VIWSFZLVM T'PH VF6N S'IQF I JGJI; 8LGF J(7FIGSZLVMGL CFHZLDA TFP Z#q\_)qZ\_! #4  
; MDJFZGF ZIH I MHFI [, cc; tTZDLcc ZIJkT] 5J'GL IJEFULI ; XMMGvJvIJ: TZ6 ; , FCSFZ ; IDITGL A'PSGL  
SFI 'JFCL GMW VF ; FY[ ; FD[, ZFBL DMS, L VF5JFDF VFJ[ KP VF A'PSDF, JFI [, F IG6" VG; FZ H[ T[ IJEFUFG  
VIWSFZLZLVMG[, JFGF YTF 5U, A VU[ 5IZIX08 ; FD[, KP T[ D]HA I MuI SFI 'JFCL CFY WZL q5b" SZL 5tI]TZ  
; tJZ[5F9JJF IJGTLP

; FD[, o p5Z D]HA IJ: TZ6 IX1F6 IGI FDS  
GS, ; IJGI ZJFGF

! DFGP SJ, 5ITzLGF ZC: I ; IRJzL4 VF6N S'IQF I JGJI; '8L4 VF6N  
Z ; XMMG IGI FDSzL VG[VG]: GFTS IJnFXFBfwI 1F4 VF6N S'IQF I JGJI; '8L4 VF6N  
# B[TL IGI FDSzL4 U]HZFT ZFHI 4 S'IQF E JG4 ; §8Zv! \_ V[cRc ZM04 UFWL GUZP  
\$ AFUFI T IGI FDSzL4 U]HZFT ZFHI 4 S'IQF E JG4 ; §8Zv! \_ V[cRc ZM04 UFWL GUZP  
5 5X'5F, G IGI FDSzL4 U]HZFT ZFHI 4 S'IQF E JG4 ; §8Zv! \_ V[cRc ZM04 UFWL GUZP  
& DG]HU OFI Z§8ZzL4 U]HZFT ZFHI ALH IGUD I, P4 ALH E JG4 ; §8Z ! \_vV] UFWL GUZ  
\* IGI FDSzL4 ALH 5'PF6G VHg; L4 ALH 5'PF6G E JG4 DF6\$AFU4 xI FD, ZF[Cfp; ZF'04  
IJEFUv54 A; :8F5 GHLS4 UF§, ZF[Cfp; GL ; FD] ; B], F. 84 VDNFJFNv # ( \_\_! 5  
( SIDxGZzL4 OL; Zlh4 HGF ; IRJF, I 4 ALHM DF/4 a, MS GR ! \_4 U]HZFT ZFHI 4 UFWL GUZ  
) VFRFI "VG[OLGzL4 AR VP S'IQF DCFI Jnf, I 4 VF6N S'IQF I JGJI; '8L4 VF6N  
! \_ VFRFI "VG[OLGzL4 5X]RIS; F VG[5X'5F, G DCFI Jnf, I 4 VF6N S'IQF I JGJI; '8L4 VF6N  
!! VFRFI "VG[OLGzL4 0ZL ; FI g; SM, H4 VF6N S'IQF I JGJI; '8L4 VF6N  
! Z VFRFI "VG[OLGzL4 V'PP5LP8LPV'g0 ALP. P4 VF6N S'IQF I JGJI; '8L4 VF6N  
! # IGI FDSzL4 5; FZ IX1F6 E JG4 VF6N S'IQF I JGJI; '8L4 VF6N  
! \$ ; V]ST B[TL IGI FDSzLsIJ: TZ6f4 VDNFJFN4 IJ; T 5BM; 5'5 ; FD] ; FAZDTL4 VDNFJFNv5  
! 5 ; V]ST B[TL IGI FDSzLsIJ: TZ6f4 JOMNZF4 DMO, OFD4 V[, p]ALS ZM04 JOMNZF  
! & ; V]ST AFUFI T IGI FDSzL4 SM9L SRZL4 JOMNZF  
! \* IH<, F B[TLJFOL VIWSFZLzL 4 IH<, F 5RFI TGL SRZL4 VF6N qJOMNZF qG10I FN sB'PF qVDNFJFN qNFCMN q  
UMWZF s5RDCE, f  
! ( GF I A AFUFI T IGI FDSzL 4 IH<, F ; JF ; NG4 VF6N  
! ) GF I A AFUFI T IGI FDSzL 4 IH<, F ; JF ; NG4 AC]DF/L E JG4 GOLI FN sB'PF  
Z\_ GF I A AFUFI T IGI FDSzL 4 SM9L SRZL4 HGF ZFJ5Z'F4 5M, L; RMSL 5FK/4 JOMNZF  
Z! GF I A AFUFI T IGI FDSzL 4 S'IQF E JG4 5F, OL4 VDNFJFN  
ZZ GF I A AFUFI T IGI FDSzL 4 IH<, F ; JF ; NG4 NFCMN

Z# GF1 A AFUFI T IGI FDSzL4 IH<, F ; UJF ; NG4 UMWZF s5RDCE, f  
Z\$ GF1 A 5XJ5F, G IGI FDSzL4 IH<, F 5RFI T SRZL4 VF6N  
Z5 GF1 A 5XJ5F, G IGI FDSzL4 IH<, F 5RFI T SRZL4 JOMNZF  
Z& GF1 A 5XJ5F, G IGI FDSzL4 IH<, F 5RFI T SRZL4 GIOI FN sBDFf  
Z\* GF1 A 5XJ5F, G IGI FDSzL4 IH<, F 5RFI T SRZL4 VDNEJFN  
Z( GF1 A 5XJ5F, G IGI FDSzL4 IH<, F 5RFI T SRZL4 NFCMN  
Z) GF1 A 5XJ5F, G IGI FDSzL4 IH<, F 5RFI T SRZL4 UMWZF s5RDCE, f  
#\_ DNNG LX Dt: I MhMU IGI FDSzL4 AMZ; N ZMD4 ; UJF ; JZ Cfp; ; FDH VF6N  
#! GF1 A Dt: I MhMU IGI FDSzL4 UJDg8 ZLHLVNG, IA<OLU4 BFNLUFDMMU EOfZ p5Z4 ZFJ5Zf4 JOMNZF  
#Z Dt: I MhMU VIW1FS4 ; ZNFZ 58U E JG4 a, MSP OL4 5CJ, M DF/4 GIOI FN sBDFf  
## DNNG LX Dt: I MhMU IGI FDSzL4 Dt: I E JG4 GULG JFOL4 SFSZL1 F4 VDNEJFN  
#\$ Dt: I MhMU VIW1FS4 HL<, F ; UJF ; NG4 5YD DF/4 NFCMN  
#5 Dt: I MhMU VIW1FS4 VF. 8LVF. 5FK/4 UMWZF s5RDCE, f  
#& ; UJST 5XJ5F, G IGI FDSzL4 sJOMNZFf  
#\* ; UJST 5XJ5F, G IGI FDSzL4 sVDNEJFNf  
#( TF, LD jI J: YF5SzL4 S10F IJ7FG Sgã4 VF6N S10F I JGJI; 8L4 NPUFTH q NFCMN q VZ6H  
#) TF, LD jI J: YF5SzL4 S10F IJ7FG Sgã4 NY, L q JH, 5Z q DU, EFZTL  
\$\_ I JG8 VIWSFZLzL4 VFINJF; L ; XMWGvJvTF, LD Sgã4 VF6N S10F I JGJI; 8L4 NUU-AFZLI F  
\$! ; XMWG J{7FIGSzL sXFSEFHLf4DpI XFSEFHL ; XMWG SgS4 VF6N S10F I JGJI; 8L4 VF6N  
\$Z ; XMWG J{7FIGSzL sTDFSf4TDFS}; XMWG SgS4 VF6N S10F I JGJI; 8L4 VF6N  
\$# ; XMWG J{7FIGSzLsAFI M08L, F. hZf4 AFI M08L, F. hZ 5MH\$84 VF6N S10F I JGJI; 8L4 VF6N  
\$\$ ; XMWG J{7FIGSzLsDf>SgI BEl g8f4 Df>SgI BEl g8 5MH\$84 VF6N S10F I JGJI; 8L4 VF6N  
\$5 ; XMWG J{7FIGSzL4 5f: 8L; F. 0 Zf; LOI J5MH\$84 VF6N S10F I JGJI; 8L4 VF6N  
\$& ; XMWG J{7FIGSzLs3F; RFZFf4 3F; RFZF ; XMWG Sgã4 VF6N S10F I JGJI; 8L4 VF6N  
\$\* ; XMWG J{7FIGSzL sDpL; LGf4VFQFIWI VGJ; UJWT 5FS I MHGF4 VF6N S10F I JGJI; 8L4 VF6N  
\$( ; XMWG J{7FIGSzLsVFZVFZVf; f4ZLHLI MG, ZL; R : 8XG4 VF6N S10F I JGJI; 8L4 VF6N  
\$) ; XMWG J{7FIGSzLsHfJS IGI v6f4 HfJS IGI v6 5fI MU XF/f4 VF6N S10F I JGJI; 8L4 VF6N  
5\_ VUJIGMDL: 8sGLN6 IGI v6f4 GLN6 IGI v6 I MHGF4 VF6N S10F I JGJI; 8L4 VF6N  
5! ; XMWG J{7FIGSzLsDSF. f4 DSF. ; XMWG Sgã4 VF6N S10F I JGJI; 8L4 UMWZF  
5Z ; XMWG J{7FIGSzLsRMBf4 DpI RMBF ; XMWG Sgã4 VF6N S10F I JGJI; 8L4 GJFUFD  
5# 5fwI F5S VG[JOfzL4 AFUFI T IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
5\$ 5fwI F5S VG[JOfzL4 SL8SXF: +4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
55 5fwI F5S VG[JOfzL4 VUJIGMDL IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
5& 5fwI F5S VG[JOfzL4 S10F CJFDFG XF: + IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
5\* 5fwI F5S VG[JOfzL4 S10F Z; FI 6 XF: + IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
5( 5fwI F5S VG[JOfzL4 JG: 5IT ZMuxF: + IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
5) 5fwI F5S VG[JOfzL4 AM8GL IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
&\_ 5fwI F5S VG[JOfzL4 IJ: TZ6 IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
&! 5fwI F5S VG[JOfzL4 GLD8M, MHL IJEFU4 ALVf; LVH VF6N S10F I JGJI; 8L4 VF6N  
&Z DNNG LX IJ: TZ6 IX1F6XF: +L4 ; ZNFZ :DIT SgS4 VF6N S10F I JGJI; 8L4 VF6N  
&# OLG VG[VFRFI zL4 S10F . HGZL SM, H4 VF6N S10F I JGJI; 8L4 UMWZF  
&\$ OLG VG[VFRFI zL4 VDPALPVP SM, H4 VF6N S10F I JGJI; 8L4 VF6N  
&5 OLG VG[VFRFI zL4 VPVF. P8LP4 VF6N S10F I JGJI; 8L4 VF6N  
&& TDFD I JG8 VIWSFZLzL4 VF6N S10F I JGJI; 8L4 VF6N  
&\* TDFD ; A I JG8 VIWSFZLzL4 VF6N S10F I JGJI; 8L4 VF6N  
&( ; FI g8L: 8 . gRFH4 ; LOF4VBLs IA<OLU4 AMZ; N RIMSOL4 VF6N  
&) ; XMWG J{7FIGSzLs8L: I S<RZF4 8L: I JS<RZ , I A4 VF6N S10F I JGJI; 8L4 VF6N  
\*\_ ; XMWG J{7FIGSzLsAFI M8SGM, MHLf4 AFI M8SGM, MHL IJEFU4 VF6N S10F I JGJI; 8L4 VF6N  
\*! ; XMWG J{7FIGSzL sS9M/f4 S9M/ ; XMWG I MHGF4 VFS1 H DMD, OFD4 JOMNZF  
\*Z ; XMWG J{7FIGSzL4 S10F ; XMWG SgN4 VFS1 H VZ6H

IJ: TZ6 IX1F6 IGI FDSzLGL SRZL  
VF6N S10F IJGJI; 8L4 VF6N

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ZIJK T] 5]JGL IJEFULI ; XIMWGvJvIJ: TZ6 ; , FCSFZ ; IDIT shSfGL ! \*DL A9SGL SFI GIMW  
: Y/ o Dwl : Y ; EF B04 APVPS10F DCFIJnf, I 4 VF6N S10F IJGJI; 8L4 VF6N  
TFP o Z#q\_) qZ\_! # ; DI o! \_P\_\_ YL! (P\_\_ S, FS

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IJ: TZ6 IX1F6 IGI FDSzLGL SRZL4 VF6N S10F IJGJI; 8L4 VF6N wJFZF TFP Z#q\_) qZ\_! #4 ; MDJFZGF  
ZMH IJEFULI ; XIMWGvJvIJ: TZ6 ; , FCSFZ ; IDIT shSfGL ! \*DL ZIJ K T] 5]JGL A9S DFGP S] 5ITzL  
OPF VP VDP XB4 VF6N S10F IJGJI; 8L4 VF6NGF VwI 1F : YFG[ I MHFI [ , P H]DFAOP SP ALP SYLZLI F4 ; XIMWG  
IGI FDSzL4 VF6N S10F IJGJI; 8L4 VF6N4 zL ALP VDP DMN4 ; V]ST B]TL IGI FDSzL sIJ: TZ6f VDNFJFN4  
zL HLP ; IP JFSF6L4 ZLHLVMG, Dt: I MhMU VIWSFZL VG[OPF 5LP5LP58] 4 IJ: TZ6 IX1F6 IGI FDSzL4 VF6N  
S10F IJGJI; 8L4 VF6N JUJZ[ DCFGJEFJM TPDH IJLJW IJnfXFBFGF VFRFI "VG[OLGzL4 S10F IJGJI; 8LGF JUUVZ  
VG[ T]MGL p5ZGL S1FFGF TDFD VIWSFZLzLVM IX1FSM 5FwI F5SM J{7FIGSM TPDH Dwl UHZFTGF K IH<, F  
sVF6N4 VDNFJFN4 BDF4 JOMNZF4 5RDCF, 4 NFCMFGF S10F4 5X]5F, G4 AFUFI T VG[ Dt: I MhMUGF  
VIWSFZLzLVM TPDH 5]UITXL, BDFM DIM8L ; b]DFACFHZ ZC] FP

VFHGF SFI SDGL X-VFTDA OPF 5LP5LP58] 4 IJ: TZ6 IX1F6 IGI FDSzL4 VFSI# VF6N[ : JFUT  
5]JRGDA DFGP S] 5ITzL OPF VP VDP XB ; FC[AG]XFaNLS : JFUT SZL H6fjI ]S[DFGP S] 5ITzL BDFMNGF VS  
D; LCF KP BDFMNG[ B]TLDA G0TF 5] GMGF pS] DF8] C'D]Xf 5] tGXL, CM KP TPDGM VS D+ K[S] BDFM SD  
; wWZ AG[ VG[ TGf 0/ : J~5[ T]MM[ VF JOF , F. 0 8F. D VRLJ D]8 V]MO" D/[, K[ H[ 5] XGLI VG[  
VIEGNGG[ 5F+ KP T]VM UHZFTGL B]TL VG[ IJSE; DA B]A H Z; WZFJ[ KP OPF SP ALP SYLZLI F4 ; XIMWG  
IGI FDSzLG[ VFJSFZTF H6fjI ]S[ T]MM[ HI FZYL ; XIMWG IGI FDSzL VG[ VG] GFTS IJWFXFBFwI 1FGM CMNM  
U]C6 SZ[ K[t]i FZYL hS4 V]U] SM VG[ 5LHL Vel F; SDGL UITIJDFA T]HL VFJL KP T]VMNZS DL8LUDACFHZ  
ZCL ; RIB DFUNXG 5Z] 5F0[ KP , F. G 0L5F8D]8GF zL ALP VDP DMN4 ; V]ST B]TL IGI FDS sIJPf VDNFJFN  
VG[zL HLP; IP JFSF6L4 ZLHLVMG, Dt: I MhMU VIWSFZLG[ VFJSFZTF T]MM[ H6fjI ]S[ T]VM VF SFI SDDFACFHZ  
ZCL DFUNXG SZX[ H[ SgJh] ; DF8] B]A H p5I MUL 5Z]ZF YX[ T]MM[ IJGJI; 8LGF IJLJW IJWFXFBFGF OLG  
VG[ VFRFI zL4 I]G8 VIWSFZLzL4 ; A I]G8 VIWSFZLzL4 J{7FIGszLVM TPDH , F. G 0L5F8D]8GF S10F4  
5X]5F, G4 AFUFI T VG[ Dt: I MhMU IJEFUGF VIWSFZLVM TPDH 5]UITXL, BDFMNG[XFaNLS : JFUTYL S] CT]P

; XIMWG IGI FDSzL4 OPF SP ALP SYLZLI FV[ T]DGF 5]JRGDA H6fjI ]S[ hSGL DL8LUG] J0FDA A[ JBT  
VFI MHG SZJFDA VFJ[ KP VF DL8LUGM D]b] VFXI BDFMNGF 5] GM qH~IZI FTMG[wI FG[ , . I]GJI; 8L ; XIMWG  
SZL GJL 8]SGM, MHL ACfZ 5F0[ T], F. G 0L5F8D]8GF IJLJW IJEFUM wJFZF H~IZI FTDNq BDFM ; ]L ; tJZ[ 5CMR[  
VG[ BDFM T]GM, FE p9FJ] D/ J[ T[ KP TGf DF8] VF56[; M]V[; FY[ D/L ; 3G 5] tGM SZJFGF KP

UT JOF IJGJI; 8L wJFZF GJLG 8]SGM, MHLq HFTM ACfZ 5F0JFDA VFJL T] VTU" T H6fjI ]S[ OFUZ  
HLV[ VFZv! #GM BDFMNGM B]A H ; FZM 5] TEEJ KPDSF. GF 5FSDA; ]WFZ[ L A[ HFTM ACfZ 5F0L K[ T]g] B]XGGI  
N#08V[ B]A H ; FZL KP 3F; RFZFDA HHLJFGL GJL HFT 3F; RFZFGF 5] GGF pS] DF8] B]A H ; FZL KP DUDADCF  
SZTA DM8F NF6FJF/L GJL HFTM T] FZ SZL ZC] F KLVP J8GZL 0] < 8LDA ULZ4 SFSZH 5KLGL GJL A]0 DF8]  
DLGFJFOF OFD" BFT[ ; XIMWG RF, L ZC] ] KP INJ] FDA; ]ZFZ 5] T]SFZS HFTMGF ; XIMWG DF8] IJEFULI ; XIMWG  
S]N4 VFSI# VF6N sVFZ VFZ V[ f BFT[ SFDULZL RF, ] KP 5L5L5L DMOGL VNZ IJLJW 8]SGM, MHL DF8] ! 5  
HB, L 8]SGM, MHLGF VDPVM ] SZJFDA VFJ] F KP 5] 8L; F. 0 Z[ L0]GL VF6N BFT]GL , ]AMZBZL wJFZF HT]GFXS  
NJFVMGF VJXQFM VU]GL p5EIMSTFVMDA HFUTTF , FJJFDA VFJL K[OP 5]M; [ LU , ]AMZBZL VDP5L8L wJFZF X~  
SZJFDA VFJL ZCL K[ H[ EFZTDA VWTG , ]AMZBZL CX[ T]JF 5] tGM Y. ZC] F KP VFD IJGJI; 8L wJFZF IJLJW  
1F+MDA 5]UIT Y. ZCL KP T[ I]GJI; 8LGF TDFD J{7FIGSMGF ; FY VG[; CSFZGF 0/ : J~5[ K[ VG[ VF 5]UITGM

I X AWF H J7FIGSMG[OF/[HFI K[VG[; J[VIENGG[5F+ KP , F. G 0L5F8Dj8GF VIWSFZLVM CDXF VF56L ; FY[ ZCL Bp]MGF 0LOAS D/JL TGF pS[ DF8[; XMMWT YI[ GJLG 8SGM, MHL H~LZIFTDNqBp]TM ; JWL 5CMRF0JFDBA H ; FY VG[; CSFZ VF5[K[VG[VF5TF ZC[ K[ T[VIENGG[5F+ KP

zL ALPVPD DML4 ; V]ST B[TL IGI FDSzL sUJ:TZ6f VDNFJFN[TDGF 5JRGDA H6fjI]S[ JFI Aq8 UJHZFT VG[VJUM; DL8G)VFI MHG ; 0/TF 5J]S YI]T[AN, ; JGM VFEFZ jI ST SI MP VFHGL ApsDA, F. G 0L5F8Dj8GF VIWSFZLVMG[Bp]MGF 0LOAS V+[ZH]SZJF VG[YI[ ; XMMWG Bp]TMp5EIMSTFVmq H~LZIFTDNM ; JWL ; tJZ[5CMR[TJF 5] tGM SZJF p5Z EFZ DsI MP T[MV[; XMMGGF ZLOF. GDj8 p5Z EFZ DsTF H6fjI]S[ VF56L E, FD6M ZFI S1FFGL VYJF TM IJ:TFZG[VFWFIZT CMI KP Bp]TM VF56L E, FD6MDATDGL SM9F; h VYJF TM 5]GMG[VFWFZ[TDGL VGS]/TF DJHA YMDM OZOFZ SZTF CMI KP NFPTP ; , F. G ; M. , DFq EF, IJ:TFZDAI5I T 3pGF JFJ]Z DF8[VF56L , F. G ; M. UGL E, FD6 KP 5ZT] Bp]TM , F. G ; M. UG[AN, [AJD SF:8LU SZL JW] pt5FNG D/J[KP TM VF AFAT[VF56[ZLOF. GDj8 SZJ]HM. VP VF DF8[VfDF 5]MHS8DA GF6FGL HMUJF. 56 SZ[ L K[VG[ZLOF. GDj8GF 0DM:8XG I]GJI; 8L wJFZF SZL XSFI TD KP OFUZGF 5FS DF8[S, Z RF8"VF5JFDA VFJ[K[VG[TGF VFWFZ[5MFSTJMV5JFGL E, FD6 SZJFDA VFJ[KP BZBZ VF5[ S, Z RF8GF S, ZG]SMDALGXG 5FS ; FY[YFI K[S]SD T[VU[IJRFZJ]HM. VP :YFIS H~LZIFTMGL AFATMG[VDM8 SZJF VF DL8LUDAIJRFZJF TDH TFH[TDFAu, MA, JMDLUGL JFTMYTL ZC[K]TF5DFGDAJWFZMYJFGM KP DF. S]S, F. D8 SZJFq TF5DFG 38FOJF DF8[X]SZL XSFI m INJ, FGL B[TL ; DL ZIJDASZL XSFI S[SDm TDFSGF AN, [INJ, FGM 5FS ZL%, X SZL XSFI S[SDm TDH GL, UFI q E]PYL YTF G]XFG VU[INJ; [INJ; [5] G UELZ AGTF[HFI KP Bp]TM +F; L U I F K[TM pS[ VU[UELZTF 5J]S IJRFZJFGL BF; H~LZIF T p5Z EFZ DsL VF AFATMVU[; XMMG YFI Tj]; RG SI P

JWDA I]GJI; 8L TDH Vgl ; \YFVM wJFZF IJ]W ; FICTI ACfZ 5FOJFDA VFJ[ KP TDA 5]TAIWT NJFVMGL E, FD6M HMF D/[K[H[VF. 5L; L S, DGM EU YFI KP VF UELZ AFAT CM. 5]TAIWT NJFVMGM ; FICTI DA; DEJX G YFI T[HMF TD H I]GJI; 8L wJFZF ACfZ 5FOJFDA VFJTF DF; S ccS1QF UM IJWfcc DF8[ Bp]T; DNFI G[B]A H IJ`JF; K[S[VF DF; S S1QF I]GJI; 8L wJFZF 5]; wW YT]CM. TPAK5FTL DFICTL B]A H IJ`JF; 5F+ CMI KP TYL VF DF; SDA IJ]W ; \YFVM q]I ISTVMGL UD[TJL HFCZFTM G , [FA Bp]MG[p5I MUL YFI VG[E, FD6 YI[ CMI TjL H DFICTL WZFJTL HFCZFTM , jLP HYL Bp]TM UZDFU[G NMZF I P

VTDAT[MV[M[Bp]MG[GJLG 8SGM, MHLYL DFICTUFZ YJF JFI Aq8 UJHZFT ; DL8DA Bp]TMV[ZHL:8XG SZFJ, TPAAWF H Bp]MGF DMAF. , GAZ K[TM VF DMAF. , GAZMGM SJL ZLT[Bp]T ; DNFI GF CLTDA B[TL IJQFI S DFICTL DF8[p5I IJ SZL XSFI T[VU[TDH O]; AS 8SGM, MHLGF p5I MU VU[IJRFZJF H6FJL Bp]TM DF8[ ZIJK T]; 0/ ZC[TjL XJEFKF ; FY[5MTFG]jI ST]I 56"SI P

hSGL DL8LUDAF0LOASGF VFWFZ[H~ZL IJ]W IJQFI M p5ZGL GJLG TFI+STF VUGF 0M:0ZMq ; FICTI , F. G 0L5F8Dj8GF VIWSFZLVMG[Bp]MG[D/L ZC[TjL DFU6LGF VG]; WFG[DFGP S], 5ITZLGF pNAMWG 5C, FA TDGF JZN C: T[S1QF TH7TF DFICTL Sgn=sV]LSF I MHGF VTUT zL ALPVRP58[ wJFZF IJ]W IJQFI M p5ZGF DFICTL ; EZ ! \$ 0M:0ZM VG[8Fq; OZ VMD 8SGM, MHL s8LVMBLF I MHGF VTUT zL ALP V[ P 58[ wJFZF ! \_ 0M:0ZM T[FZ SZJFDA VFJ, TG]IJDMRG SZJFDA VFJ, P VF 0M:0ZM Bp]MG[B]A H p5I MUL YX[Tj]DFGP S], 5ITZLV[H6fjI P

DFGP S], 5ITZL OFF XB ; FC[A[H6fjI]S[CJ]5KL Dwl UJHZFTGF K G[AN, [VF9 IH<, FGF VIWSFZLVM hSGL DL8LUDAFVFJXP VF ZIJK TGL hSGL DL8LUDAZIJ 5FSM DF8[U. ; F, H[0LO AS q 5] GM CMI TGF pS[ q IGZFSZ6 DF8[VF ApsDA RRF"SZJFGL CMI P K[, F NX JQFYL JZ; FNGL S5F KP GCZM EZFI[ L KP VF JQF JZ; FN JC, M X~ YI M TYL IJNFI DIML YX[Tj], FU[KP SD S[VFH ING ; JWL JZ; FN RF, ]KP VF56[; XMMG SZ[ K[S[DIOM JZ; FN YFI TM TGL IJNFI JC, L YFI VG[TGFYL IJ~ww4 VF56]JZ; FNGF VGDFG VUG] ; XMMG VF JQF]5ZJFZ YFI KP

JFJ6LGL TFZLB VUJ ZLOF. GDj8 SZJF p5Z EFZ D\$TFA TMM[H6fjI]S[VF JQF]; TT JZ; FN RF, ] ZC[TFVALHL K TGL; DI; ZGL JFJ6L q ZM56L DF8[D]KS, LVM 50XP VF6N VG[B]DF IH<, FDF0FUZ, LWF AFN BDTM INJ, F SZ[KP TG]5ZOMDg; ; F- K[B]DTMGL SMF; h; FZL KP T[U]5IZT 5IZI: YITDA56 Z: TMXMM SF-[K][T][SMF; hGF VWFZ]; XMMG YFI T[H-ZL KP T]JL H ZLT[JZ; FN CH]; WJL RF, JCM EF, DAZIJK T]DF8[3p4 R6FGL JFJ6L; DI; Z Y. XSX[GCL TD KTA BDTM TDGL SMF; hYL X]SZ[K][T][DFICTL D/JL ZLOF. G SZJ] BJA H H-ZL KP OFUZGL pt5FNSTF CH] VMKL K[VF56[ ALHF ZFHIMDFYL, FJLV[ KLV] TGL pt5FNSTF JWFZJF VF56[X]SZL XSLV[T]DF8[RSF; 6L YJL HM. VP VF AFAT[GJFUFDF BFT[GJL HFTMGL; XMMGG L SFDULZL RF, ]K[VF56[; O/ Y. V[T]JL VFXF ZFBLVP IXIF/FDA; MIFALG; FZM 5FS K[T]Y. XS[S]SDm AFUFI TGL GOFSEZS B[TL VUJ J]i VPLXGGF TF, LD JUM UM9JJF4 DF. S]gI B]Vg8GF 5DF6 VUJGF TF, ]F 5DF6[D]5 AGFJJFDFVFI, K[T]5DF6[BFTZM VF5JFGL E, FD6 SZL K[T]GM p5I MU YJM HM. VP T]JL H ZLT[ 5X]F, GDA DLGZ, DLSRZGF DctJ VG[p5I MU DF8[E, FD6M SZL, L K[T]GM OFI NM BDTM p9FJ[T]JF 5]i tGM SZJF HM. VP

VF JQF; FZM JZ; FN YI, KP T/FJMDA; F- 5F6L KP VF56L 5F; [NIZIF> IJ:TFZ; FZM KP tIFA OIXS<RZ 8]SGM, MHL IJS; FJL T[M]G[DNN~5 YJ] HM. VP VF DF8[VF56[tIFA; LOFGL IMHGF RF, [K]TDH N]FTHGL V]S IMHGF KP Dt: I MmMU IJEFU VG[VF IMHGFVMM]; FY[D/L4 VFI MHG SZL SFDULZL SZJL HM. VP BDTMGL SMF; hGF[B]; wIFG, ]F H6fjI] 36F BDTM[TDGL SMF; hGF VWFZ]B[TLDA5]UIT SZL, K[VG[T]M[G[V]JID"D/] KP VFDV VTUT FIG U5MAGFJL T[M]G[V]JID"V5FI K[VFJF BDTM[G]5M; FICT SZJF p5Z EFZ D\$I IP

IJJW; XMMGGF ZLOF. G p5Z EFZ D\$TFA H6fjI]S[S, F. D]R] gHGF TFZ6M IYI MZIS, K[BZ]BZ 5M, L Cfp; D]A]8LU SZJF HM. V] OFUZGL B[TL YL \* \_ 8SF IDY[G JFI]5NF YFI K[T]GM p5I MU Y. XS[S]SD TDH OFUZDA 5F6L 38F0JF V]; VFZVF. cczLcc 8]GSLGL E, FD6 SZLV[ KLV[5ZT] BDTM[G]VF 5wWIT V5GFJJFDFD]KS, LVM 50L ZCL K[T]VU] TDH 5X]F, GDA OLO B]OFJJFYL IDY[G U] YFI K[T]DF8[VgI Z:TF IJRFZL IDY[G U] 38FOL XSFI S]SD T[VU]; XMMG RF, L ZC I]K[T]JL DFICTL VF5LP

ZIJKTG 5FSM VUJ OLOA]SGF VWFZ]RRF"SZL; XMMG SZJF4 5]TAIWT NJFVINGF GFD; FICTI D]AG KF5JF VUJGL BF; SF/HL, ]F4 EIJOI DA5GZFTG G YFI T]HMUF J{7FIGSMG]8SMZ SZL4 SIOF DCM; J GJ JQFYL SZLV[ KLV[T]wJFZF J{7FIGSMGM BDTM; FY; LMM; '5S" YTF BDTM[G]W6M OFI NM YIM K[VF AFATG] JFI A]8 U]HZFTDA IAZNFJJFDF VFI K] TGM IX; J] J{7FIGSMGF OF/] HFI K]; J] J{7FIGSM VF DF8] VIEGNGG[5F+ K[TD H6FJL T[M]M[JST]I 5]S]P

VTDAOPP ALP VRP 58, 4 TF, LD; CFI S s5FS; Z1F6f4 IJ: TZ6 IX1F6 IGIFDSGL SRZL4 VF6N SIOF I]GJL; 8L4 VF6N]; J] DCFG]EFJM SIOF I]GJL; 8LG F IJJW IJnFXFBGF VFRFI" VG[ OLGzL4; XMMG J{7FIGSZLVM I]G8 VIWSFZLVM SIOF 45X]F, G4 AFUFI T VG[ Dt: I 5F, GGF VIWSFZLzLVM 5]UITXL, BDTM TDH VF SFI S]DFA; C I MU VF5GFZ; J]GM VFEFZ DFGL VFHGL CJ]5KLG L RFZ TFI+S A]SMGF SFI S]DGL ~5ZBF VF5L pNB]F8G SFI S]DM 5]S]Z, CTMP hSGL A]SGF pNB]F8G SFI S]DG]; RF, G OP D]S]XEF. VFZP 58, 4 DNGLX IJ: TZ6 IX1F6XF: +L4; ZNFZ: DIT S]a4 VF6N[SZ], P

VFHGL A9SDF[S], RFZ TFI+S A9SMG\ VFI MHG SZJFDA VFJ[, P

TFI+S A9Sv! 0 ! 5DL hSGM V\$; G 8\$G ZL5M8"VG[J0F"Z\_! #vZ\_! \$GL CJFDFG 5IZI:YIT VCJF,  
 TFI+S A9SvZ 0 S10F IJ 7FG Sjn4 VFSI # NJJFTH4 VZ6H4 NFCMN4 VFINJF; L TF, LD Sja NJU-AFZLI F VG[  
 ; ZNFZ :DIT Sjn4 S10F IJ 7FG Sja UHZFT IJnF5L9 NY, L4 S10F IJ 7FG Sja DU, EFZTL4  
 JOMNZF4 S10F IJ 7FG Sja JH, 5ZGM5JUIT VCJF,

TFI+S A9Sv# 0 JOMNZF 4 5RDCF, VG[NFCMN IH<, FGF S10F4 5X5F, G4 AFUFI T VG[Dt: I fhfU VCJF, P  
 TFI+S A9Sv\$ 0 VF6N 4 BDF VG[VDNFJFN IH<, FGF S10F4 5X5F, G4 AFUFI T VG[Dt: I fhfU VCJF, P

TFI+S A9Sv!

|   |          |   |
|---|----------|---|
| ! | RZDG     | OP Vp VDP X[B4 DFP S], 5ITZL4 VF6N S10F IJGJI; 8L4 VF6N                     |
| Z | SIP RZDG | OP JLP VFZP AMBZF4 ; C IJ: TZ6 IX1F6 IGI FDSzL4 VFSI # VF6N                 |
| # | ZL5MBZ   | OP VRP ALP 58[, 4 ; C IJ: TZ6 IX1F6XF: +L4 IJPIXPiGPGI SRZL4 VFPSPi P4 VF6N |

s! f V\$XG 8\$G ZL5M8b

RZDGzLGL DHZLYL OP AFAJEF. VRP 58[, 4 TF, LD ; CFI S s5P; RF4 IJ: TZ6 IX1F6 IGI FDSGL  
 SRZL4 VF6N S10F IJGJI; 8L4 VF6N(TP Z)q\_)qZ\_! ZGF ZMH hSGL ZIJ kTJ 5JGL ! 5DL A9SDFp5I:YT  
 YI[, DNFMGM VF ; FY[; FD[, V\$; G 8\$G ZL5M8G)5FJZ 5M. g8 5Hg8XG ZH]SI P

RZDGzLV[ ZH] YI[, ZL5MBG[ Cfp; GL RRF[ DF8[ B[, M D\$TFA RRFG[ VT[ GLR[ D]HA V\$XG , JFG]  
 GSSL YI P

s! f IAG VIWST , MSM SI+D JLI NFG 5XVMDF SZ[ KP T[ VUJG 5tI]TZDA DNGLX 5X5F, G  
 IGI FDSzLGL SRZLGF 5]TIGI WV[ H6fjI ] S[ VF AFAT[ UHZFT J8ZGZL Sfp; , DAFSI JFCL RF, ] K[  
 ZL5M8"VFJ[ZH]SZJFDA VFJXP

sZf ! 5DL hSGL DL8LUDFAUZFHZ ZCJF VUJG : 508TF VU[H]MM[5tI]TZ 5F9J[, GYL TMIGL U'ELZ  
 GMW , . 4 TMIG[ : 508TF SZJF ZLDF. gOZ SZJM VG[ hSGL DL8LU B]A H VUti GL CM. VF AFATG]  
 OZLYL 5GZJTG G YFI VG[; AWT VIWSFZLV hSGL DL8LUDFAVJxi CFHZ ZC[T]VU[TDGL p5, L  
 SRZLV[HF6 SZJLP

s#f V[ V5LGF B]TMG[ OLX S<RZGL TF, LD VF5JF VTU'T zL VFZP VFZP pGZSZ4 VF; LP ; 5]8j0g84  
 VF6N[ H6fjI ] S[ ; LOF ; FY[ TF, LDG] VFI MHG KP E-R BFT[ TF, LD UM9J[, P 0LOA\$DFA SM. 5] GM  
 D/TFGYLP

s\$f OFUZGL ZM56L q SF56L DF8GF I FI+S ; F3GM AGFJJF VUJG S10F . HGZL SM, H4 UMWZGF J{7FIGSzl  
 ; J6SFZGF 5tI]TZ ; AXL RRFG[VT[; XMMG IGI FDSzLV[H6fjI ] S[AHFZDAIJUW S5GLVMGF VFJF  
 H[ ; F3GM p5, aW K[ TGL RSF; 6L DF8[ zL WMZFHLI F4 IH<, F B[TLJFOL VIWSFZL4 VF6N4 OP VT],  
 DCITF4 ; XMMG J{7FIGS sRMBff4 GJFUD TYF S10F . HGZL SM, HGF OP ; J6SFZGL 8LD AGFJJFDA  
 VFJ[KP VF 8LD VF VU[VeIF; SZL VFJF ; F3G AGFJJF4 BZLNJF4 E, FD6 SZXP VF AFAT[ S10F  
 . HGZL SM, HGF OLGzL q J{7FIGS[VGS]/TF D]HA VFI MHG SZL SFI JFCL 5b"SZL VFUFDL hSDFAZL5M8"  
 SZJFGM ZCXP TDH S10F . HGZL SM, H D]I]V, VM5ZBP sDFGJ XISTYL RF, TF ; FWGMF ; FWGM  
 IJS; FJJF ; XMMG SZ[TD DFGP S], 5ITzLV[H6fjI ]

s5f I]GJI; 8LGL OFUZGL HFTM VG[5F. J8 S5GLGL HFTMGL pt5FNSTF VUJG RSF; 6L DF8GF ODM: 8XG q  
 VBTZF UM9JF AFAT[; XMMG IGI FDSzLGF 5tI]TZDA; XMMG J{7FIGSzl RMBFV[H6fjI ] S[AWL H  
 HFTMGF 8f 8LU Y. XS[GCL 5ZV] GMBLOF. 0 JZFI 8LGF 8f 8LU Y. XS[ VG[T] VU[VFUFDL ; LhGDA  
 SFI JFCL CFY WZJFDA VFJXP  
 Cfp; DFYL SM. 56 5] GMqZH]VFTM ZH]G YTA V\$XG 8\$G ZL5M8"UfCI ZFBJFDA VFJ I MP

sZf DwI UjHZFT S10F CJDFDG 5IZI:YIT

S10F CJDFDG 5IZI:YIT VUJG\IJUTJFZ 5FJZ 5M. g8 5hg8XG OP j1F; 5fg0# 5fwl F5S VG[J0F4 S10F CJDFDGXF: + IJEFU4 AIPVP; LPVP4 VF6N[ ZH] SI P TDPH JZ; FNGL H[ VFUFCL ; %8#AZ DF; DA SZ[ L T[ TDPH 5 VFS8#AZ ; JW JZ; FN RF, ]ZC[X]TJL DFICTL VF5LP T[VFM[VUJHL EFOFFDA5FJZ 5F. g8 5hg8XG SZ[ VF AFAT[VFUFDL hSDFA5JUTLXL, BDTF wJZF ZH]VFT SZJFDAVFJ[ S[U]HZFTL EFOFFDA5hg8XG SZJ] T[D]HA VFUFDL hSDFAUJHZFTLDA5hg8XG SZJF T[VFG[H6FJJFDAVFjI P

DFGP S], 5ITzLV[ H6fjI] S[ hSGL A9SGM D#i VFXI I]GJI; 8L EFZF YI[ ; XMMWT E, FD6Mq TFI+STFGM DC2D p5IMU SZL S10F pt5FNG JWFZJFGM VG[ BR" 38F0JFGM K# TDPH BDTMNG[ TFI+STF V5GFJJFYL 50TL DkSj, LVINGF SFZ6M VU[0LOA\$ D/JL VF DL8LUDAFRRF"SZL TGF pSj, XMMJFGM KP T[DF8[ hSGL DL8LUDAFSSYL YI F D]HA V\$XG 8\$G ZL5M8"VTUT ; AIWT VIWSFZLVMM[H[5U, F, JFGF YTF CMI T[ ; tJZ[ , . V+[ZL5M8"DMS, JFGM CMI KP zL ALP VRP 58[ GF H6fjI F D]HA BF; SZLG[, F. G 0L5F8Dj8 wJZF sS10F4 5XjF, G4 AFUFI T4 Dt: I MhMUF VF AFAT[UVELZTF , JFDA VFJTL GYL VG[5tI]TZ 5F9JTF GYL H[ AZFAZ GYLP TM VF AFATG[8MR VUJDTF VF5L hSGF pNKG[ ; 0/ SZJF TDFD prR S1FFGF VIWSFZLVMM VF DL8LUDAFVJxI CFHZ ZC[VG[JWDFJW]0LOA\$ ZH]SZ[T[H~ZL KP

VF A9SGF RZDG DFGP S], 5ITzLV[ VF A9SDA, JFI, IG6I VG; FZ SZJFGL YTL SFI JFCL VUJ ; JGJFSD SZL ; JGM VFEFZ DFGL A9S 5j"SZLP

VF SFI SDGF ; RF, SZL OP ALPVRP 58[ [ TFI+S A9Sv! GF RZDG4 DFGPS], 5ITzLGM SIMRZDG VG[ ZL5M8ZGM VFEFZ DFGL 5jYD A9S 5j"HFCZ SZLP

TFI+S A9SvZ

|   |          |  |
|---|----------|--|
| ! | RZDG     | OP V~6EF. VP 58[, 4 IG1FDSzL4 5j; FZ IX1F6 EJG4 VFSI # VF6N                  |
| Z | SIP RZDG | OP ; LP 5LP Nj; F. 4 5fwl F5SszL4 5j; FZ IX1F6 EJG4 VFSI # VF6N              |
| # | ZL5M8Z   | OP ALP Vj; P 58[, 4 ; C IJ: TZ6 IX1F6XF: +L4 IJPIXIPGGL SRZL4 VFPSPi P4 VF6N |

VF A9SDAS10F IJ 7FG Sjn4 VFSI # NJFTH4 VZ6H4 NFCMN4 VFINJF; L TF, LD Sja NJU-AFZLI F VG[ ; ZNFZ :DIT Sjn4 VF6N4 VJLP 5M, LS, LGLS NFCMN TYF S10F IJ 7FG Sja UjHZFT IJnf5L9 NY, L4 S10F IJ 7FG Sja4 DU, EFZTL4 JOMNZF4 S10F IJ 7FG Sja JH, 5ZGF 5JUIT VCJF, ZH]SZJFDA VFjI P s! f S10F IJ 7FG Sja4 NJFTH

S10F IJ 7FG Sjn4 VFSI # NJFTHGM ZL5M8" 5MUF D SM VMOLG8Z OP HLP HLP 58[, [ZH]SI MP Sjn=wJZF UM9JJFDAVFJ[, VMG S#5; 4 VM0 S#5; SFI SDMGL DFICTL ZH]SZLP VP V[, 0LGF 0LOA\$DATMM[H6fjI]S[ 3pDAhLS VG[AFI M08L", F. h; "JF5ZJFYL pt5FNG JW KP 0LV5LGM J5ZFX 38[, KP 3pDADF. S#jI B#Vj8 UpvIV GM :5[ OFI NFSZS DF, D 50[, KP T[, IAI R 5FSMDA ; <OZ JF5ZJFYL pt5FNG JW KP 8FI SMDF" JLZLOL OJUGXS TZLS[JF5Z[KP DZRFGF 5FSDAHLJL; lv! \_! G); F~ pt5FNG D/[ KP 5XjF, GDAAFI 5F; 5#BLGJF/]NF6 VF5JFYL pt5FNG JW KP 0LXZLh I MHGGL DFICTLDA TMM[H6fjI] S[ GDNF vTF5L GNLDAYL hLUF , FJJFDA VFJ[, TGL J1ww ; FZL YFI K[VG[ UFD T/FJMDA VF5JFDA VFjI F KP ; LO JL, H 5MUF D , JFDA VFJ[, K[TGL DFICTLZH]SZLP

sZf S10F IJ 7FG Sja4 VZ6H

S10F IJ 7FG Sjn4 VFSI # VZ6HGM VCJF, zL VRP ALP XFSI FV[ZH]SI MP HDA Sjn=wJZF UM9JJFDA VFJ[, TF, LDJUM , FEYLVINGL ; bI F4 AMZ4 VFD/F4 HL~GF VPV[, 0LGF 5IZ6FDMDAHL~PHL; LP\$ Z\_ BDTMNG[ VF5JFDA VFJ[, TDA)P) 8SF pt5FNG JWFZ[D/[ KP TDPH AFI 5F; 5#BLGJF/]NF6 VG[IDGZ, IDSRZ VF5JFYL NJW pt5FNGDAJWFZM YFI KP TGF VG; WFG[OP ALP5LPXFC[5] G SIMS[AFI 5F; 5#BLGJF/]SB, ) NF6 VF5JFYL SB, M OFI NM YFI VG[ IDGZ, IDSRZGF EFJ VG[ TGF VYSZ6GL DFICTL SJLS[ VZ6H[ VFRFI zL OZL ; FI g; G[DMS, L VF5JL VG[VFUFDL hSDAVF DFICTL ZH]SZJL TD H6FJJFDA VFjI P

s#f S'10F IJ 7FG Sgā4 NFCMN

S10F IJ 7FG SgN4 VFSI Ꞥ NFCMNGM ZL5M8" OFP pDXEF. V[ZH]SI MP SgN=wJFZF UM9JJFDFVfJ, IJ IJW TF, LD SFI SDIM , FEfYLVIMGL ; b1F4 5FYGLI DGL HFUTTF VUJGF BF; TF, LD JUM UM9JJFDFVfJ, TGL DFICTL ZH]SZLP R6F 5FSGL B[TL DF8] E, FD6 YI Ꞥ, NZ VG[ BDTM wJFZF VtI FZ[ H[NZ] IAI FZ6 JF5Z] K[ T] VUJGF ZLOF. GDg8GF VBTZF UM9JJFDFVfJ, Kp HGF 5IZ6FDM +6 J0F" AFN ZH]SZJFDFVfJX[T]H6fj I Ꞥ T[MIM[ZH]SZ], DFICTLGL : , F. OM JW]CM. RZD[GZLV[H6fj I ]S[YMOL 56 AWL H DFICTL 8SDAZH]YFI T[ZLT] 5hg8XG SZJ] VG[ OLOASG[ JW] 5FWfgI VF5JꞤ VF AFATM NZSG[ , FU] 50TL CM. CJ] 5KL ; JM] 5MTFGF 5hg8XG T[ZLT[ZH]SZJFGF ZCXꞤ

s\$f ; ZNFZ :DIT Sgā4 VF6N

; ZNFZ :DIT Sgā4 VF6N S10F I]GJI; 8L4 VF6NGM VCJꞤ, OFP DꞤX VFZP 58[ , [ZH]SI MP SgN=wJFZF UM9JJFDFVfJTA8SFUF/FGF TF, LD JUM HJNL HJNL ; \YFVM VftDF 5MHꞤ8GF TF, LD JUM UHZFTGF IJ IJW IJ:TFZMDFYL I]GJI; 8LGL D], FSFT[ VFJTF D], FSFTLVIMGL VꞤ PVꞤ PSP TꞤH OFDGL JLhL84 VgI ZFHIMGF TF, LDJUMGL DFICTL ZH]SZLP OLO ASDA T[MIM]. GIMBJL BDTM[T]DGL SIMꞤ; h VG[J]7FIGSMGF DFUNXGYL IJ IJW 5FSMDF D/JꞤ, JW] pt5FNGGL DFICTL ZH] SZLP VꞤ VꞤ S[ VꞤ S10F I F+FWFD K[ VG[ TGF DFUNXYL BDTMDFAB[TL IJOFI S DFICTL D/JꞤ VUJGL BJA H HFUTTF VFJL K[T]D H6fj I Ꞥ

s5f VFINJF; L TF, LD Sgā4 NJU-AFZLI F

VFINJF; L DIC, F TF, LD SgN4 NJU- AFZLI FGM VCJꞤ, TF, LD jI J:YF5S OPULZXEF. V[ZH]SI MP SgN=wJFZF DIC, FVMG[UC pMMU VTUT4 I; J6 4 EZTU]Y64 DNL DꞤJF VUJGL IJ IJW TF, LDMGL DFICTL VG[ , FEfYLVIMGL ; b1F BDTM ; S], T HLJFT jI J:YF5G V5GFJTF YIF K[ T] DFICTL TꞤH 5X] IJ 7FG SgN4 , LDBꞤF BFT[GJ] X~ YI Ꞥ, K[5ZT]CF, DATGL AꞤS jI J:YF NJU- AFZLI F BFT[CM. TGL IJ IJW 5JItTVIMGL DFICTL T[MIM[ZH]SZLP NJU- AFZLI F BFT[:8MZHGL D]XꞤ, LVM CM. T[DF8]ZH]VFT SZTAFꞤp; DFYL T[MIG[ H6fjJFDFVfj I]S[VꞤ5L8L VF6N BFT[ , MPSM:8 SIM:0 :8MZH IJS; FJJFDFVfJ, K[T]GM p5I MU SZJMP

s&f VUJLP 5M, LS, LGLS4 NFCMN

VUJLP 5M, L8SGLS4 NFCMNGM ZL5M8" ; LGLI Z ZL; R" VF; L:8g84 zL ZFHIX JFSD[V] [ZH] SI MP T[MIM[ ; MI FALGDA OꞤB SIMGFZ . I / TꞤH SFTZFGF GꞤXFG VUJ DFICTL ZH] SZTAF 5fwI F5S VG[ J0F4 SL8SXꞤ: + IJEFU[H6fj I]S[NZꞤ 5FSDAHLJFTIMYL SꞤ, F 8SF GꞤXFG YFI K[ TGL VFSOFSLI DFICTL T[MIG[DMS, L VF5JL VG[T]GF 5IZ6FD VFUFDL hSDAZH]SZJꞤ

s\*f S'10F IJ 7FG Sgā4 NY, L

UHZFT IJWF5L9 ; RF, LT S10F IJ 7FG SgN4 NY, LGM VCJꞤ, OFP XDFꞤ 5MHꞤ8 SM VMOLGBZ[ZH]SI MP SgN=wJFZF UM9JJFDFVfJ, IJ IJW SFI SDMGL DFICTL4 :5Mg; Z TF, LDJUM VftDF ; FYGF TF, LD JUM TꞤH OFUZ VG[ INJꞤ, FDF UM9JJFDFVfJ, OꞤM:8XGGL DFICTL ZH] SZLP T[MIM[ OFUZDA GLD SIMꞤ I ZLI FGF p5I MUYL BDTMIG[ OFI NM YFI K[ T]Ꞥ DFICTL VF5TA 5] G 5KJFDFVfj I M S[ SꞤ, M OFI NM YFI T[ VUJGL VFSOFSLI DFICTL TꞤ FZ SZL VFUFDL hSDAZH]SZJF H6fj I Ꞥ

s(f S'10F IJ 7FG Sgā4 DU, EFZTL4 JOMNZF

S10F IJ 7FG SgN4 DU, EFZTL4 JOMNZFGM VCJꞤ, IJOFI IG06FT zL ID, G AꞤDEĪ[ZH]SI MP SgN=wJFZF UM9JJFDFVfJ, IJ IJW TF, LD SFI SDIM , FEfYLVIMGL ; b1F4 :5Mg; Z 8GLU 5MUFDGL DFICTL ZH]SZLP SgN=wJFZF 3pꞤ DSF. 4 R6FG OꞤM:8XG UM9JJFDFVfJ, TGF 5IZ6FMDAR6F HL HL PZ ; FZL HFT KꞤ 8F. SIMDFGF p5I MUYL ; SFZFG] IG1+6 HJUF D/Ꞥ, KꞤ TꞤZDA JꞤXꞤ, L HFTGF 5IZ6FDM ; FZ F D/Ꞥ, KꞤ VF AFAT[ OFI NF VU[ BR" VG[ VFJSGL VFSOFSLI DFICTL JW]OLOAS D/JꞤ VFUFDL VFUFDL hSDAZH]SZJF H6fj I Ꞥ

s) f S'10F IJ 7FG Sgā4 JH, 5Z

S10F IJ 7FG SgN4 VF. ; LVVfZ4 JH, 5ZGM VCJꞤ, 5MHꞤ8 SM VMOLGBZ OFP zLDTL SGS, TF ZH]SI MP SgN=wJFZF UM9JJFDFVfJ, IJ IJW TF, LD SFI SDIM :5Mg; Z 8GLU 5MUFDGL TꞤH 3pꞤ AFHZL4 DSF. VG[ S5F; DA



UM9JJFDFVVFJ, ODM: 8XG VTUT OLOASDRTVMV[H6fjI]S[BD]TM; ON DSF. JWFZ[5; N SZ[KP TDH S5F; DFOA, AL8L HFTGF p5I MUYL BD]TMG[OFI NM YI], KPDZ3FGL GJL HFT H[JOF! #\* . OF DS[K[HIFZ], MS, HFT 5\$. OF DS[K[T[DFICTL ZH]SZL TDH DL, LAUYL 5FSDAGSXFY YFI K[TD H6FJTA VF AFAT[Cfp; DFYL 5]G SZJFDFVVFJ I M S] ; ON DSF. JWFZ[5; N SZJF VU# OA, AL8L S5F; GL S. HFT , LW, 4 DZ3FGL GJL HFTGL , F1F6STF VG[VDP#8]AL, L8L ZB TDH DL, LAUG[IJ]JW 5FSMFA; J[SZL GSFYGGF 8SFGL DFICTL SL8SXF: + IJEFUG[DMS, L VF5JL TDH H[5]GM p5I: YF YIF TGL DFICTL VFUFDL hSDAZH]SZJLP

VTDFVA9SGF RZDGzLV[; JGM VFEFZ DFGL A9S 5]6"HFCZ SZ, P SFI SD ; RF, S OP ALPVRP58, # RZDGzL4 SIMRZDGzL VG[ZL5MBZGM A9SGF ; NZ ZLT[; RF, G AN, VFEFZ jI ST SIMP

TFV+S A9S v#

|   |         |   |
|---|---------|---|
| ! | RZDG    | OP VDP JLP 58, 4 5fwIF5S VG[JOF4 VU]MGMDL IJEFU4 ALV[ LM# VFSI # VF6N |
| Z | SIMRZDG | zL VDP ALP WNFHLI F4 HL<, F B[TLJFOL VIWSFZL4 VF6N                    |
| # | ZL5MBZ  | OP VFZP HL HFNJ4 ; C 5fwIF5S4 AFUFI T IJEFU4 ALV[ LM# VFSI # VF6N     |

VF A9SDFAJOMNZF4 5RDCE, VG[NFCMN HL<, FGF S1QF4 5X]5F, G4 AFUFI T VG[Dt: I MhMU IJEFUGF VCUJF, MZH]SZJFDFVVFJ I P VF A9SGL X-VFTDARZDGzLV[VCUJF, ZH]SZGFZ ; J[VIWSFZLVMG[H6fjI]S[ SFDULZIG]; YIF%TDAZH]SZL OLOASGL DICTL JW]ZH]SZJLP

JOMNZF HL<, Mb

s! f S'QF IJEFUo

S1QF IJEFU JOMNZF HL<, FGM VCUJF, SfgTLEF. 5ZDFZ4 IH<, F B[TLJFOL VIWSFZLV[ZH]SIMP JOMNZF HL<, FGL 5FS 5IZI: YIT TDH IJ]JW 5FSM C9/GM JFJ[TZ IJ:TFZ TYF Vgl B[TL IJOFI S DFICTL ZH]SZLP OLOASDRTVMV[H6fjI]S[SF/L HDLGDFAJW]JZ; FNGF SFZ6[, FAFUF/F ; JW B[TL SFI MY. XSTF GYLP T[VU] ; XIMWG YJF AFAT[DC]EF. V[H6fjI]S[S9M/ 5FSMFA DUGL 5MB]XLI F, L8L Z5\_\_ ISPUFDqC]S8Z K[HIFZ[ VF56]; Z]FX pt5FNG (\_\_\_ IS, M]C]S8Z KP TYL GJL HFTMG[AN, [H[T]5FSMGL 5MB]XLI F, L8L ; WLG]pt]FFNG D/JJF JW] ; FZL 5wWITVM H6FJJL HM. VP SF/L HDLGDFAGLN6GF 5]GMGF 5]tI]TZDFAVU]MGMDL: 8[H6fjI]S[ 8UF; ]SZGM p5I MU TDH 5F6LGF IGSF, GL jI J: YF SZJFDFVVFJ[ TM 5]G ; Z/TFYL IGJFZL XSFI P OFUZGL 5M]FSD]i hLS VG[VFI G WZFJTL HFTM AFAT[; XIMWG J(7FIGS RMBFV[H6fjI]S[; XIMWG RF, ]K[T]ZT H HFTM VF5L XSFI GCLP S5F; DFA%, FI: 8S D<RLU V5GFJ[K[T]OFI NFSFZS YFI S[SD TGF 5]tI]TZDFAOP DC]EF. V[ H6fjI]S[ TGF VBTZFGF 5IZ6FDING[VFWFZ[GSSL SZL XSFI P

ZP AFUFI T IJEFU o

AFUFI T IJEFU4 JOMNZFGM VCUJF, AFUFI T VIWSFZLV[ ZH] SIMP TDGF IJEFU wJFZ IJ]JW I MHGFVMDA SZJFDFVVFJ, SFDULZIGL DFICTL ZH]SZLP OLOASDRTVMV[H6fjI]S[G]B Cfp; qU]G Cfp; GL E, FD6M DIC, FVMG[8FD]BFGF 5ZLZ1F6 VU[TF, LD 4%, UG; ZLGL DFLCTLGF 5]tI]TZDFAH6FJJFDFVVFJ I]S[ VF AFATMG]JFZUFZ 5GZJFTG SZJFDFVVFJ KP U]G Cfp; qG]BCfp; DF8GF ; ]DGFZM YIF K[TDFA DFICTL VF5JFDFVVFJL K# OM<OZM VF5JFDFVVFJ KP DIC, FVMG[ TF, LD AFAT[KMB]pN]5Z BFT[YL TF, LD D/JJL VG[AFUFI T DF8]JH, 5Z BFT[VF. ; LV[VZG]; XIMWG S]N=K[tI FGM ; '5S"SZJF H6fjI P

#P 5X]5F, G IJEFUo 5]TIGIW CFHZ ZC[, GYLP

\$P OXZLh IJEFUo 5]TIGIW CFHZ ZC[, GYLP

5RDCE, HL<, Mb

s! f S'QF IJEFUo

5RDCE, HL<, FGM VCUJF, zL H]VLEF. 58, 4 HL<<F B[TLJFOL VIWSFZLV[ ZH] SIMP CJFDFG 5IZI: YTL TYF VF5JFDFVVFJ, TFV+STF4 ODM: 8XG VU[DFICTL ZH]SZLP OLOASDRTVMV[H6fjI]S[VF JOF] JW]JZ; FNGF SFZ6[OFUZGM IJ:TFZ JW, KP HIFZ[ DSF. GM IJ:TFZ 38, K[VG[TG]pt5FNG 56 VMK] VFJXP 5]L 8fg; %, fg8ZGF IGNXGGL DFICTL ZH]SZLP BFTSLI I MHGFVMDA BD]TMG[ ; CF1 DF8[

SMIALGXGI ST HTGFXS NJFVIMGL E, FD6 SZL XSFI m UJG Cfp; DAFJFJ[TZ YTL SFSOLDA8; 8 VFJTMGYL  
 TM S. HFTGL E, FD6 SZJL m SMALHGL B[TL SZL XSFI S[SD m TGF 5[1] TZDA H6FJJFDA VFJ I ] S[ UJG  
 Cfp; DAFDNF O, MJWFZ[VFJ[TJL HFTMGL 5; NUL SZJLP  
 sZf AFUFI T IJEFU o 5|ITIGIW CFHZ ZC|, GYLP  
 s#f 5XJ5F, G IJEFUo

5XJ5F, G IJEFU4 5RDCF, GM VCJF, VGP VP UM; F. V[ZH] SIMP TDPG IJEFU wJZF IMHGFVM VTUT  
 SZJFDA VFJTL SFDULZL ZH] SZLP VFINJ; L TF, SFVMDA 5XJ5F, G 1f+; 3G SFDULZL SZJFDA VFJ[ K[ TD H6fj I ]  
 OLOASDA SM. 5[ GM ZH] SZ|, GYLP

s\$F OLXZLh IJEFUo 5|ITIGIW CFHZ ZC|, GYLP

NFCMN HL<, Mo

s! f SIOF IJEFUo

NFCMN HL<, FGM SIOF IJEFUGM VCJF, HL<, F B[TLJFOL VIWSFZLZL OLOM/[ ZH] SIMP JFJ[TZ IJ:TFZ  
 VTUT JW]JZ; FNGF SFZ6[ \* \_ YL ( \_ 8SF DSF. GM 5FS IG00/ HX[TD H6fj I ] P OLOASDA VON 5FSDADIMhS  
 TPDH XFSEFHL 5FSMDA 5ZJ/GL B[TL DF8; FZL HFTMG); XMWG TPDH DSF. DAVUJZLI F IJXGF IGI 4-6 VUJG  
 5[1] TZDA H6FJJFDA VFJ I ] S[ VON VU[ VZ6H BFT[; XMWG RF, [ KP 5ZJ/GL HFTM VU[ VUfpGL hSDA  
 5[1] TZ 5F9JJFDA VFJ, T[ 5DP6[ HFTMGM p5 I MU SZJMP DSF. DAVUJZLI F DF8[UMWZF DSF. ; XMWG SpNGM  
 ; 5S\*SZL 5U, A, , JF H6fj I ]

sZf AFUFI T IJEFU o 5|ITIGIW CFHZ ZC|, GYLP

s#f 5XJ5F, G IJEFUo

5XJ5F, G IJEFU4 NFCMNGM ZL5M8' 5XJ5F, G VIWSFZL SP V, P HMOFLV[ ZH] SIMP ASZLVINGF ; XMWG  
 VU[VG[NW pt5FNG JWFZJFGL H-LZIFT VU[ZH]VFT SZTACfp; DFYL H6FJJFDA VFJ I ] S[ ASZLVINGL ; FZL  
 VM, FNGF ; XMWGGL SFDULZL I]GJ I; 8LDA RF, ] K[ VG[ NW pt5FNG VU[ ; O/ 5XJ5F, GGF 5; TSM qOMkOZM  
 5SFIXT SZJFDA VFJ, K[ TGFYL NW pt5FNSMG[ DFICTUFZ SZJFP JWDAT[VM hSDAZH] SZJFGL DFICTL IGI T  
 5hg8XGDA , FJ, GIC TYL IJ:TZ6 IX1F6 IGI FDSZLV[ H6fj I ] S[ DFICTL IGI T 5ZOMDF DJHA VG[  
 UJHZFTLDAH , FJJLP

s\$F OLXZLh IJEFUo 5|ITIGIW CFHZ ZC|, GYLP

TFV+S A9S v\$

|   |        |   |
|---|--------|---|
| ! | RZDG   | OPVP VDP DC[TF4 ; XMWG J7FIGS sRMBf VFPSI P4 GJFUFD                   |
| Z | SMRZDG | zL ALP V; P JF/N4 GF1 A AFUFI T IGI FDS4 VF6N                         |
| # | ZL5M8Z | OP 8LP VDP EZ5MDF4 ; C 5fwl F5S4 SL8SXF: + IJEFU4 ALV; LM VFSI # VF6N |

VF A9SDA VF6N4 BDF VG[VDNEJFN IH<, FGF SIOF4 5XJ5F, G4 AFUFI T VG[ Dt: I MmU IJEFUGF  
 VCJF, MZH]SZJFDA VFJ I P

VF6N IH<, M

s! f SIOF IJEFU o

VF6N IH<, F SIOF IJEFUGM VCJF, zL VDP ALP WMZFHLI FV[ZH] SIMP IH<, FDA 5FS 5IZI: YIT VUJ  
 H6fj I ] S[ OFUZ HLV[VFZv ! # GF 5IZ6FDM ; FZF KP OFUZ 5KLG 5FS JZ; FNGF SFZ6[ , B YXP AFHZLGM  
 IJ:TFZ 38; KP TDFSGL ZM56L Y. XS|, GYL TPDH W~ 56 JZ; FNGF , LW[IG00/ YI, KP OLOASDA H6fj I ] S[  
 AL8L 5SF; GL 36L HFTM VFJ, L K[ TGF JFJ6L VTZ VG[ BFTZGL E, FD6M TDFSGL AN, LDF; ID ZIJ T,  
 JFJL XSFI P 5JF'T, G[IAI FZ6 D/T]GYL TM ALHL S. HFTGL E, FD6 SZJL4 T, 5KL AFHZL , . XSFI P VF  
 AWF H 5[ GMGF 5[1] TZDA OFP DCXEF. 4 5fwl F5S VG[ JOFV[ H6fj I ] S[ 5SF; GF 5FSDA Z\_\_ YL JW]

VBTZFVM , LWI, K[ TDFOM:OZ; GL H~Z GYLP Z\$\_ ISPUF GF. 8MHG TDH Z 8G KPBFTZ GFBJR OLV[EL  
JF5ZJ]GCLP 5F. JB S5GLVNGF 5]TIGIWM SM. 56 VFWFZ JUZ E, FD6 SZ[ KP 5LV; AL S<RZ HM pEF  
5FSMDAVF5JFDAVFJ[TMTGFYL 56 OFI NM YFI P T, JFJL XSF I P  
sZF AFUFI T IJEFU 0

AFUFI T IJEFU4 VF6NGM VCPJF, zL ALPV; P JF/N[ ZH] SI MP T[MVM[ OLOASDA H6fj I ] S[ U[G  
Cfp; qGB Cfp; DAFSD IGI +64 VF8LDLXLI FGL B[TLGL E, FD6M , M SM: 8 U[G Cfp; TGL Olhf. G VG[BRGL  
DFICTL4 U[G Cfp; GF 5FSM VG[ TDF5MFS TtJMG L E, FD6M VU[ DFICTL DF8[ ZH]MFT SZTRAFUFI T IJEFU  
TZOYL H6FJJFDA VFj I ] S[ U[G Cfp; DA U, FA4 S%; LSD4 8FDBF4 HZA[ZFDA; O/TF D/[, KP SFSOL VG[  
S%; LSDGF VBTZF RF, ] K[ 5IZ6FDM VFj I ] YL H6FJJFDA VFJXP , M SM: 8 U[G Cfp; DF8[ GL, ULZLG 8SF  
JF5ZJFYL pW. VFJ[K[ TYL; FZL UBJTJF/] AGFJJR U[G Cfp; DF8[ SM. RISS; Olhf. G GYLP AFUFI T  
IJEFUGF 5M ZFH5]T 5F; YL Olhf. G VG[ B[TL BRGL DFICTL D/L ZCX[ TD H6fj I ] AFUFI T IJEFU[ U[G  
Cfp; ; AWLT p5Z H6FJ, DFICTL 5] MUMGF VFWFZ[VFUFDL hSDAZH]SZJL TD H6FJJFDA VFj I ]

s#f 5X]5F, G IJEFU 0

5X]5F, G IJEFU VF6NGM VCPJF, zL DI Z ELDf6LV[ZH] SI MP 5X]5F, GGL IJLJW IXIAZM q TF, LD  
JUMDA S10F I]GJ I; 8LGF J[7FIGSM wJFZF B]A H ; FZM; FY VG[; CSFZ VF5JFDA VFJ[K[ HG FYL VWzwWVVM  
N Z YFI KP BZ]BZ S10F I]GJ I; 8L Wg I JFNG[5F+ K[TD H6fj I ] T[MVM[SM. OLOAS ZH]SZ, GYLP  
s\$F OLXZLh IJEFU 0

OLXZLh IJEFU VF6NGL DFICTL zL VFZP VFZP pGZSZ4 VF; LP ; 5]8]0g84 VF6N[ZH]SZL P T[MVM[  
H6fj I ] S[ # (\* T/FJM . HFZF TZLS[, LWI, KP GJF VBTZF YFI q DFK, LVM DIM8L YFI TUL DFICTL VF5JF  
TDH RML V8SFJJGF p5FI VU[ ZH]MFT SZTR Cfp; DFYL H6FJJFDA VFj I ] S[; LOF VF6N VG[NJFTHGL  
I MHGF wJFZF; XMMGGL ; UJOM 5]DF6[SFDULZL RF, ] KP 5IZ6FDM D?I [DFICTL ZH]SZJFDA VFJXP  
B[OF IH<, M

s! f S'10F IJEFU 0

BDF IH<, FGM S10F IJEFUGM VCPJF, zL SPVDP 5ZDFZ4 IH<, F B[TLJFOL VIWSFZLV[ZH] SI MP T[MVM[  
OLOASDA H6fj I ] S[ TDFS GF IJS<5 TZLSGM 5FS4 GL, UFI vEJNGF IGI +64 3pDAJWFZ[IAI FZ6 JF5Z[K[ HG F  
5]T]TZDFAOP DCXEF. V[H6fj I ] S[ TDFS GF IJS<5 TZLS[INJ, FGL E, FD6 SZJLP ; %8BAZ ! 5 YL Z5 ; JMLDA  
JFJ[TZ VG[# 15I T VF5JFYL ; F~ pt5FNG D/[KP TDFSGL HuI FV[S5F; VG[INJ, F4 pGF/FDA DUO/L , .  
XSFI T[VUJGL AL8LVFZV; GL E, FD6 K[TD HP V; P 58, [H6fj I ] IXIF/FDAZFHUZM , . XSFI P

sZF AFUFI T IJEFU 0

AFUFI T IJEFU4 BDFGM VCPJF, zL ZIJ 5RF, [ZH] SI MP OLOASDA T[MVM[ H6fj I ] S[ DM; ALGF 5FSDA  
HLJFTMGF IGI +6 DF8[SL8SXF: + IJEFUGF DFUNXG D]HA 5U, F, JFDA VFJ, HGF , LW[IGI +6 D/[, P VF  
AFAT[5fwI f5S VG[JOF4 SL8SXF: + IJEFU[H6fj I ] S[SB, F 8SF IGI +6 YI ] T[VU t I G] K[ VG[ VFIYS ZLT[  
SB, M OFI NF[YI MP DM; ALDAO/DFYL Z; R; GFZ ONF ZF+LGF ; DI [VFJ[K[ TG[ E]UF SZL SL8SXF: + IJEFUDA  
DMS, L VF5JFP , F. 8 8FGM p5I MU SI M CM TM SJF 5SFZG]JF5Z, TGL DFICTL DMS, JLP S5F; DA 56 VF H  
ONFYLG S; FG YT]CM. TDF IGI +6 GF VF H 5U, F, JF TD H6fj I ] p5ZMST DFICTL VFUFDL hSDAFUFI T  
IJEFU BDFV[ZH]SZJL TD H6fj I ]

s#f 5X]5F, G IJEFU 0

5X]5F, G IJEFU4 BDFGM VCPJF, zL I]JLP50I F4 5X]5F, G VIWSFZL4 OFSMZ[ZH] SI MP IJEFU wJFZF  
5X]VFZMI 4 Z; LSZ64 ; DTM, VFCFZ4 5X]; UWG VTUT SZJFDA VFJ, 5]TtTVMZH]SZLP OLOASDA T[MVM[  
H6fj I ] S[ 5X]MIDAJLDF DF8[. , 58MGLS RL%; VF5LV[KLV[ HG FYL BDFMG JLD FGL ZSD D/ JFDA; Z/TF  
Y. K[TD H6fj I ]

s\$F OLXZLh IJEFU o 5|ITIGIW CFHZ ZC|, GYLP

VDNFJFN IH<, M

s! f S!QF IJEFU o

S!QF IJEFU4 VDNFJFN IH<, FGM VCUJF, zL V| PALP 5HF5ITV[ZH}SI MP 0LOA\$DFA T[MIM[H6fjI}S[ OFUZGF ZM5F6 DF8[8Fg; %, Fg8ZGF p5I MU VU[VIMKL HDLGM ; FWGIMGL ISDT JWFZ[TD H 8DFAW~ pKZ VU[ DkS[, L 50[KP TGF 5tI tTZDA; XIMWG J{7FIGS sRMBF V[H6fjI}S[H; MNF VU[M VEFJ ; FWGM AGFJ[KP ISDTM JWFZ[CM. ; CSFZL WMZ6[BZLNJFDA VFJ[TM ; Z/TF ZCP IAG I5I T R6FGF 5FSDA0} VJ:YFV[I:5S, ZYL I5I T VF5JFYL IJ3[5\_ YL &\_ ISPUF pt5FNG JW[K|TGF 5tI tTZDA CfP; DFYL H6FJJFDA VFjI}S|TGFYL G\$; FG YXP VF AFAT| ; XIMWG J{7FIGS4 VZ6H ; FY[5ZFDX"SZL VFU/ J3JF H6fjI}VG[TGM VCUJF, VFUFDL hSDA[ZH]SZJMP

sZF AFUFI T IJEFU o 5|ITIGIW CFHZ ZC|, GYLP

s#f 5XJ5F, G IJEFUo

VDNFJFN 5XJ5F, G IJEFUGM VCUJF, OFP VPALP 58[, 4 GFIA 5XJ5F, G IGI FDS[ZH}SI MP TIDGF IJEFU wJZF CFY WZJFDA VFJ[, IJIJW SFI SPIMGL DFICTL ZH] SZLP 0LOA\$DFA T[MIM[5XVMDF. TZOLGF IGI+6 VU| ; XIMWG H~ZL K|TD H6FJTFVJ8GZL SM, HGF OFP V; GFGLV[H6fjI}S|. TZOLGFXS NJFVM AHFZDA p5, aW K|TDH TGF IGI+6 VUGL IJIJW 5wWITVM VUGF, BM p5, aW K|T[D/JL 5XJ5F, SIG[ DFICTL 5CMRFOJF H6fjI} S\$, F 8SF 5XVMDF VF 5}G K|VG[TGF IGI+6 DF8[, JFI[, 5U, AVU[VFUFDL hSDAVCUJF, ZH]SZJMP

s\$F OLXZLh IJEFU o 5|ITIGIW CFHZ ZC|, GYLP

VTDFAAPS GF RZDGzLV|; JGM VFEFZ DFGL APS 5b"HFCZ SZ| P

SFI SD ; RF, S OFP ALPVRP58[, RZDGzL4 SIMPRZDGzL VG[ZL5MBZGM APSGF ; NZ ZLT| ; RF, G AN, VFEFZ jI ST SI MP

SFI SDG[VIT|OP ALPVRP 58[, VFHGL hSGL APSDA CFHZ ZC|, F TDFD DCFG|EFJM VIWSFZLzLVM VFRFI zL ALPVP; LPVP4 VF6N[CM, TYF Vg| ; UJOM 5ZL 5FOL T[AN, T[MzLGM 4 ; LWL I F VFOSTZL ZLT[ DNN~5 YGFZ TDFD SDRFZLVMGM VG[CFHZ ZC|, F BDT EF. VMJUJZGM VFEFZ DFGL VFHGL hSG[APS 5b" HFCZ SZJFDA VFJLP

IJ: TZ6 IX1F6 IGI FDSzL

# ZIJK T] 5}J'GL ! \*DL hS'GL A[9SGM V[SXG 8[SG ZL5M8"

ZIJK T] 5}J'GL IJEFULI ; XMWG vJvIJ: TZ6 ; , FCSFZ ; IDITshSFGL ! \*DL A[9S T[FZ#q)! #GF ZMH D/| P ; NZ A[9SDF DCFGJEJMGF ; RGM VG[ TFI+S A[9S ! 4Z4#4\$DA ZH] YI|, VCJF, VG[ 5] GM[TZLGF VT[ ; AIWT VIWSFZLVM[, JFGF YTF 5U, F VUJGM V[SXG 8[SG ZL5M8"GLR[DHA KP

| SPD              |    | DJNFGL IJUT  | DJNFGL VD,<br>SZGFZ VIWSFZL                                | DJNFGL VD,<br>SZJF , LW ,<br>5U, FGL IJUT |
|------------------|----|--|--|---|
| DCFGJEJMGF ; RGM | !  | ; , F. G ; M. , DFI EF, IJ:TFZDAI5I T 3pGF JFJ[TZ DF8[ I]GJI; 8LGL VF56L , F. G ; M. UGL E, FD6 KP 5ZT] B[9]TM , F. G ; M. UG[AN, [A]O SF:8LU SZL JW] pt5FNG D[V]J[KP TM VF AFAT[VF56[ZLOF. GD[8 SZJ]HM. VP  | 5MUF D SM VMDLGBZ4 S10F IJ 7FG S[9]NM sVf tDF 5MHS8 VTU Tf |   |
|                  | Z  | OFUZGF 5FS DF8[ S, Z RF8" VF5JFDF VFJ[ K[ VG[ TGf VFWFZ[ 5MNSTtJM VF5JFGL E, FD6 SZJFDF VFJ[ KP BZ[BZ VF5 , S, Z RF8GF S, ZG]SMIALGXG 5FS ; FY YFI K[S]SD T[VU[ZLOF. GD[8 SZJ]HM. VP   | 5MUF D SM VMDLGBZ4 S10F IJ 7FG S[9]NM sVf tDF 5MHS8 VTU Tf |   |
|                  | #  | JZ; FN CH]; Wl RF, ]CM. EF, DFI ZIJK T] DF8[ 3p4 R6FGL JFJ6L ; DI ; Z Y. XSX[ GCL TD KTA B[9]TM TDGL SM[9F; hYL X] SZ[ K[ T[ DFICTL D[V]JL ZLOF. G SZJ] BJA H H-ZL KP  | 5MUF D SM VMDLGBZ4 S10F IJ 7FG S[9]NM sVf tDF 5MHS8 VTU Tf |   |
|                  | \$ | GL, UFI q E[9YL YTF G[SXFG VU[INJ; [INJ; [5] G UELZ AGTF[ HFI KP B[9]TM +F; L UIF K[ TM TGf pS , VU[ UELZTF 5J]S IJRFZL T[VU[; XMWG YJ]H-ZL KP   | ; XMWG IGI FDSzL4 VFSI ] VF6N                              |   |
|                  | 5  | 5]TAIWT NJFVMGM ; FICTI DFI ; DFJX G YFI TDH I]GJI; 8L wJFZF ACZF 5FOJFDF VFJTF ccS10F UM IJWFcc DFI; SDF IJ IJW ; \YFVM qjI ISTVMGL UD[ T]JL HFCZFTM G , [FA B[9]TMG[ p5I MUL YFI VG[ E, FD6 YI , CMI T]JL H DFICTL WZFJTL HFCZFTM , JLP HYL B[9]TM UZDFU[G NMZFI P   | 5[SXG IJEFU4 IJIXIGGL SRZL4 VFSI ] VF6N                    |   |
| TFI+S A[9Sv!     | !  | 5DL 8Fg; %, Fg8Z4 CFJ]:8Z TDH Vg  ; FWGM VU[ zL 3MZFH LI F4 IH<, F B[TLJFOL VIWSFZL4 VF6N4 OFP VT], DC[TF4 ; XMWG J{7FIGS sRMBFf4 GJFUF D TYF S10F . HGZL SM, HGF OFP ; J6SFZGL 8LD  VeIF; SZL VFJF ; F3G AGFJJF4 BZLNJF4 E, FD6 SZXP VF AFAT[ S10F . HGZL SM, HGF OLGzL q J{7FIGS[ VG[S]/TF D]HA VFI MHG SZL SF I JFCL 5}6"SZL VFUFDL hSDFAZL5M8"SZJFGM ZCXP TDH S10F . HGZL SM, H D[9]V, VM5Z8D sDFGJ XISTYL RF, TF ; FWGMF ; FWGM IJS; FJJF ; XMWG SZJF VUP | OLGzL4 S10F . HGZL SM, H4 UMWZF                            |   |
|                  | Z  | OFUZGL pt5FNSTF VUJGL RSF; 6L VU[ GMBLOF. 0 JZFI 8LGF 8]:8LU VFUFDL ; hGDFA CFY WZL TGf 5IZ6FDM VFUFDL hSDFAZH]SZJF VUP  | ; XMWG J{7FIGS zL sRMBFf VFSI ] GJFUF D                    |   |
|                  | #  | hSGL VFUFDL DL8LUDFA CJFDFG VUJGM VCJF, UHZFTL EFOFFDF 5hg8[XG SZJMP   | 5fwI F5S VG[ JOF4 S10F CJFDFGXf: + IJEFU4 ALPV; LPVp4 VF6N |   |

|                |    |  |  |
|----------------|----|--|--|
| TFN+S<br>A9SvZ | !  | AFI 5F; 5 8LGJF/  S8,  NF6 VF5JFYL S8, M OFI NM YFI VG  IDGZ, IDSRZGF EFJ VG  TGF VYSZ6GL DFICTL S LS  VZ6H  VFRFI ZL QZL ; F g; G DMS, L VF5JL VG  VFUFDL hSDA VF DFICTL ZH SZJLP   | 5 UFD SM V DLGBZ4<br>S QF IJ 7FG S a4<br>VZ6H              |
|                | Z  | 5hg8XGDAWL H DFICTL 8SDA ZH YFI T ZLT 5hg8 SZJ  VG  OLOASG  JW  5FWg  VF5J  VF AFATM NZSG  , FU  50TL CM. ; JM  CJ  5KL 5MTEGF 5hg8XG T  ZLT  ZH  SZJFG ZC P   | hSGM VC F, ZH <br>SZTF AWF H<br>IJE FUMGF<br>VIWSFZLV M    |
|                | #  | NZS 5FSDA HLJFTIMY S8, F 8SF G5XFG YFI K  TGL VFSOFSLI DFICTL 5fw F5S VG  JOF4 SL8SXF: + IJEFU4 ALV ; LV  VF6NG  DMS, L VF5JL VG  TGF 5IZ6FD VFUFDL hSDA ZH SZJLP  | V U P 5M, L8SGLS4<br>NFCIN                                 |
|                | \$ | OFUZDA GLD SM8P I ZLI FGF p5I MUYL B TNG  OFI NM YFI K  T JL DFICTL VF5TA5  G 5 KJFDA VFj  M S S8, M OFI NM YFI T  VU GL VFSOFSLI DFICTL T  EZ SZL VFUFDL hSDA ZH  SZJLP   | 5 UFD SM V DLGBZ4<br>S QF IJ 7FG S a4<br>NY, L             |
|                | 5  | R6F HL HLPZ DA8E. S ODFGF p5I MUYL ; SFZFG  IGI v-6 TPDH T ZDA J Xf, L HFTGF JF TZYL YI , OFI NF VU  BR" VG  VFJSGL VFSOFSLI DFICTL VU JW OLOAS D JL VFUFDL hSDA ZH SZJLP  | 5 UFD SM V DLGBZ4<br>S QF IJ 7FG S a4<br>DU, EFZTL4 JOMNZF |
|                | &  | 0A, AL8L S5F; GL S. HFT , LW , 4 DZ3FGL GJL HFTGL , F F6STF VG  V 8 AL, L8L Z8 TPDH DL, LAUG IJJW 5FSMDA ; J  SZL G5XFGGF 8SGL DFICTL SL8SXF: + IJEFUG  DMS, L VF5JL TPDH H 5 GM p5I: YF YIF TGL DFICTL VFUFDL hSDA ZH SZJLP | 5 UFD SM V DLGBZ4<br>S QF IJ 7FG S a4<br>JH, 5Z            |
| TFN+S<br>A9Sv# | !  | hSv! *GL VU I GL DL8LUDAVF5q VF5GF 5 TIGIW CFHZ ZC F GYL TGL U ELZ GMW ,  FDAVFJL K  UZCFHZ ZC F VU : 508TF YJF AFATP  | GFI A 5X F, G<br>IGI FDSzL4<br>HL<, Mv JOMNZF              |
|                | Z  | hSv! *GL VU I GL DL8LUDAVF5q VF5GF 5 TIGIW CFHZ ZC F GYL TGL U ELZ GMW ,  FDAVFJL K  UZCFHZ ZC F VU : 508TF YJF AFATP  | GFI A Dt: I MhMU<br>IGI FDS4<br>HL<, Mv JOMNZF             |
|                | #  | hSv! *GL VU I GL DL8LUDAVF5q VF5GF 5 TIGIW CFHZ ZC F GYL TGL U ELZ GMW ,  FDAVFJL K  UZCFHZ ZC F VU : 508TF YJF AFATP  | GFI A AFUFI T<br>IGI FDSzL4<br>HL<, Mv 5RDCf,              |
|                | \$ | hSv! *GL VU I GL DL8LUDAVF5q VF5GF 5 TIGIW CFHZ ZC F GYL TGL U ELZ GMW ,  FDAVFJL K  UZCFHZ ZC F VU : 508TF YJF AFATP  | GFI A Dt: I MhMU<br>IGI FDS4<br>HL<, Mv 5RDCf,             |
|                | 5  | hSv! *GL VU I GL DL8LUDAVF5q VF5GF 5 TIGIW CFHZ ZC F GYL TGL U ELZ GMW ,  FDAVFJL K  UZCFHZ ZC F VU : 508TF YJF AFATP  | GFI A AFUFI T<br>IGI FDSzL4<br>HL<, Mv NFCIN               |
|                | &  | hSDA ZH  SZJFGL DFICTL IGI T 5ZOMDF D HA VG  U HZFTLDAH , FJJLP  | GFI A 5X F, G<br>IGI FDSzL4<br>HL<, Mv NFCIN               |
|                | *  | hSv! *GL VU I GL DL8LUDAVF5q VF5GF 5 TIGIW CFHZ ZC F GYL TGL U ELZ GMW ,  FDAVFJL K  UZCFHZ ZC F VU : 508TF YJF AFATP  | GFI A Dt: I MhMU<br>IGI FDS4<br>HL<, Mv NFCIN              |

|                 |    |  |  |  |
|-----------------|----|--|--|--|
| TFN+S<br>A9Sv\$ | !  | AFUFI T IJEFU[U]G Cfp; ; AWLT Olhf. G VG[T]GF BR"<br>VU]GL DFICTL 5]I MUMGF VFWFZ[VUFUFL hSDFAZH]SZJLP   | 5Fwl F5S VG[JOF4<br>AFUFI T IJEFU4<br>ALV]; LV] VFSI ]<br>VF6N |  |
|                 | Z  | DM; ALDA0/DFYL Z; R; GFZ ONF ZF+LGF ; DI [ VFJ[ TG[<br>E]UF SZL SL8SXf: + IJEFU4 VF6NG[DMS, JF T]DH , F. 8<br>8]GM p5I MU SIMCMI TM S]F 5]FZG]JF5Z], TG] DFICTL<br>56 T]MG[DMS, JLP p5Z]ST DFICTL VFUFDL hSDFA ZH]<br>SZJLP  | GFI A AFUFI T<br>IGI FDSzL4<br>HL<, Mv B]F                     |  |
|                 | #  | hSv! *GL VUtI GL DL8LUDAFVF5q VF5GF 5]TIGIW CFHZ<br>ZC]F GYL TG] U]ELZ GMW , ]FDFAVFJL K] U]ZCFHZ ZC]F<br>VU]:5Q8TF YJF AFATP  | OLXZLh IJEFU<br>HL<, Mv B]F                                    |  |
|                 | \$ | IAG I5I T R6FGF 5FSDF]Q; VJ:YFV[I:5]\$, ZYL I5I T<br>VF5JFYL JL3[5_ YL &_ ISPU]P pt5FNG JW[K] I:5]\$, ZGF<br>p5I MU VU]; X]WG J]7FIGS4 VZ6H ; FY[ 5ZFDX" SZL<br>VFU/ JWJF T]DH T]GM VC]F, VFUFDL hSDFA ZH] SZJF<br>VUP   | HL<, F B]T]LJFOL<br>VIWSFZL4<br>HL<, Mv VDNFJFN                |  |
|                 | &  | hSv! *GL VUtI GL DL8LUDAFVF5q VF5GF 5]TIGIW CFHZ<br>ZC]F GYL TG] U]ELZ GMW , ]FDFAVFJL K] U]ZCFHZ ZC]F<br>VU]:5Q8TF YJF AFATP  | GFI A AFUFI T<br>IGI FDSzL4<br>HL<, Mv VDNFJFN                 |  |
|                 | *  | 5X]MDF] . TZOLGF IGI ]+6 VU]; X]WG H~ZL K] T]D<br>H6FJTR J]GZL SM, ]HGF OFP V; GFGLV[ H6f]I ] S[<br>. TZOLGFXS NJFVM AHFZDF]p5, aW K] T]DH T]GF IGI ]+6<br>VU]GL IJ]W 5wWITVM VU]GF , ]M p5, aW K] T] D]/JL<br>5X]F, SMG[ DFICTL 5CMRFOJF H6f]I ] S]B, F 8SF 5X]MDF]<br>VF 5]G K] VG[ TG] IGI ]+6 DF8[ , ]F]I , 5U, F VU]<br>VFUFDL hSDFA VC]F, ZH]SZJLP | GFI A 5X]F, G<br>IGI FDS4 HL<, Mv<br>VDNFJFN                   |  |
|                 | (  | hSv! *GL VUtI GL DL8LUDAFVF5q VF5GF 5]TIGIW CFHZ<br>ZC]F GYL TG] U]ELZ GMW , ]FDFAVFJL K] U]ZCFHZ ZC]F<br>VU]:5Q8TF YJF AFATP  | GFI A Dt: I M]MU<br>IGI FDS4<br>HL<, Mv VDNFJFN                |  |