



(भ्रष्टाचार विरुद्धको संयुक्त राष्ट्रसङ्घीय महासन्धिको नेपाली अनुवाद र अंग्रेजी प्रतिसहित)



नेपाल सरकार कानून, न्याय, सविधानसभा तथा संसदीय मामिला मन्त्रालय सिंहदरबार, काठमाडौं । फागुन २०७०



प्रकाशन सहयोग कानुनी शासन तथा मानवअधिकार संरक्षण प्रणाली सबलीकरण कार्यक्रम/युएनडीपी





 $e_{i}^{6}f_{i}^{-1} = 0 \text{ m/fi}_{i}^{4} = 0 \text m/fi}_{i$





glfn;/sf/ sfgg, Gofo,; ljwfg; ef tyf; +blo dfldnf dGqfno l; xb/af/, sf7df8f}+ knfug @)&)

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; asng,; offing tyf; DkfbgM
gkfn; /sf/, kwfgdGqL tyf dlGqkl/ifbsf]sfoffio, I; xb/af/, sf7df8f}.
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k\$fzsM

gkn; /sf/, sfgg, Gofo, ; kj wfg; ef tyf; +blo dfldnf dGqfno, l; xb/af/, sf7df8f}+

k\$fzg;xofUM

sfggl zf; g tyf dfgj clwsf/; AlfOf k\fthat; anls/Of sfo\fmd (RoLHR) \diamond oPg8lkl

ljt/OfM lgMzNs

k\$fzg k|t || %,))) k|t

k\$fzg ldlt M@)&) kmfub

b0{zAb

; Θ Qm /fi6*a\sf]; lqmo ; b:o /fi6\sf] gftfn]g\sfnn]e\sqrt{6frf/ lj?4sf] ; Θ Qm /fi6*a\sqrt{3lo dxf}; l\sqrt{6wnf0\{; g\@)!! km\sqrt{1/c}\ll @# df cgdf\sqrt{9} u/l ; f] dxf; l\sqrt{9wsf}k\sqrt{1/c} \ll \text{gf} dxf; l\sqrt{1/c} \text{wnf0\{cgdf\sqrt{9} u/l g\sqrt{1/c} nuf0\{cgdf\sqrt{9} u/l g\sqrt{1/c} nuf0\{cgdf\sqrt{1/c} nuf0\{cgd

eiofrf/ h:tf]; femf /filsf] af/ldf cGt/filo@:t/sf] b:tfj hnf0{gkfnlefiffdf; d] hgdfg; ; dIf nhfg' Hofb} pkofill xG5 . eiofrf/ lj?4 kefj sf/l ?kdf n8\dg hg; dbfon]/flio@ tyf cGt/filo@:t/sf sfg\dg kfj wfg af/] hfgsf/l /fl/gkg[xG5 . To:tf]; lrt JolQm tyf ; dbfon]; du|; dfhnf0{g}lbzflgblz ug{; xofil klofpg; Sb5 . k|tt k\sfzgn]; f]; DaGwdf; rgf tyf 1fg; Dk\fof u/l eiofrf/ lj?4 hgr]tgf clej [4 ug{6] f klofpg]5 eGg]cfzf lnPsf]5'.

e]f/fh zdf{ ; lrj sfgg, Gofo, ; lj-wfg; ef tyf ; +blo dfldnf dGqfno l; xb/af/, sf7df8f}+

cgfkrfl/s cgjfb

e|6frf/ lj?4sf]; eQm/fi6xa3lo dxf; lQw k|tfjgf

o; dxf; lGwsf /fHo kIfx;

elofrf/sf sf/Of; fdflhs: yfloTj /; //Iffdf pTkGg xg] uDel/; d:of/rgf}t, khftGqsf]dNo/; f]; Da4; #yfsf]gl}ts dNo/Gofo kltsf]pk]ff Pj +lbuf]lj sf; tyf sfggsf]zf; gsf]vt/f klt; /fl\$f/fVb}

e | 6frf/ / c6o ls1; dsf ck/fw, vf; u/L ; DklQ z4Ls/0f nufotsf ; E17t ck/fw / cfly $\$ ck/fwsf]c6t/; Da6w k| t klg ; /f $\$ f\f\)

/fllox;sf] /fhgllts :yfloTj Pj + lbuf] lj sf; nf0{ rgf}l lbg] vfnsf akt\kl/df0fsf ; DklQ; E ; DalGwt /x\sf e |6frf/sf d2fx; df /fllosf ; ftx; 7hf]cqkftdf /xq]s/ftkm(yk ; /f\sf/ /f\b)}

eiofrf/ ca :yfglo ; d:of dfq geo{ ; a} ; dfh Pj + cy{oj:yfx;nf0{k\psi flj t ug [ax/fli6\varphi lqmofsnfk ePsf] o; sf]/f\syfd tyf lgoGq0fsf nflu cGt/fli6\varphi ; xofi cfj Zos kg [s/fdf lj Zj:t xb]

eilofrf/nf0{ kefj sf/l ¿kdf /fsyfd ug{ / To; sfj kilt/filv ug{

Jofks / axcfoflds b[i6sf]f cfj Zos kg[s/fdf; d] lj Zj:t xb}

eiofrf/sf] kefj sf/L /fsyfd ug{/ To; sf] klt/fiv ug&f nflu Ifdtf j [4 Pj +; +yfut lj sf; nufot /fHox; sf] sfo{fdtf clej [4 ug{ klj lws ; xfotf klkt ePdf To; n] dxTj kllf{ eldsf lgj fk ug{ ; Sg] s/ftkm{yk lj Zj : t xlb}

u}sfggl ¿kdf cfh{g ul/Psf] JolQmut ; DklQn] vf; u/LkhftflGqs ; :+yfx¿, /fli6@ cy{oj:yf Pj+sfggsf] zf; gnf0{ Iflt

k¥ofpg]s/fdf ljZj:t xb}

u/sfggl ¿kdf cflht; DklQnf0{cGt/fli6@ ¿kdf Psaf6 csf] b/zdf; fg[s/fnf0{cem k\epsilon fg]kQf nufpg]/ b?T; flxt uq[/; DklQ lkmtf{u/fpq]sfofdf cGt/fli6@; xoflu clej f4 uglaf/1c7fb ubl

kminbf/L tyf b]fqL jf kzf; slo sf/jfxldf ; DklQ ; DaGwL clwsf/af/] Goflos lg_kOf ug{ sfggsf] plrt klamofsf cfwf/et

1: 4fGtx; nf0{cfId: ft ub}

elofrf/ lgif/Of / pGdhg ; a} /fHox; sf] pQ/bfloTi ePsf] / /fllox; n]olb o; Ifqdf rflnPsf pqlx; sf k\u00f6f; nf0{k\u00e9fj sf/L tNofpq] xf] eq]; fj hlqs lfq aflx/sf qful/s; dfh, u); /sf/L; =yf / ; dbfodf cfwfl/t ; Ë7gx¿sf JolOm tyf ; dkx¿sf]; dyg / ; mlgtfdf Ps csf(nf0{; xof() ug((g)(s)/fnf0{\lbfgdf /f\lbf})

; filigs ; DklQ / ; filigs sfok; sf] ; dlrt Joj:yfkq, lgiklftf, pQ/bfloTj / sfggsf]cufl8 ; dfgtfsf l; 4fGt / :jfledfgsf] /Iffsf]cfjZostfPj+ej6frf/nf0{It/isf/uql; :sftnf0{kl/kflntuql

s/fnf0{; dt Wbfqdf /fVb}

ell6frf/ lgjf/0f Pj +To; sf]kllt/filvdf ck/fw lgoGq0f tyf knflybf/L Gofo ; DaGwl cfofu tyf ; eQm /fi6xallo nfu" cfffw tyf ck/fw : DaGwL sfoffosf sfofflkz+f ub}

o; If grade sto (t clk/rsq ; Ë7q, o/f (klo kl/ifb)\e6; f/ ; xof (u kl/ifb\-ljZj e6; f/ kl/ifb\klg elgg] o'ffklog olgog, c/a /fflox¿sf] Inu, cflys; xoflu / lj sf; ; Daßwl; E7g / cdl/sl /fllox; sf]; E7g nufotsf cGt/fli6@ / Ifalo ; E7qx; n]u/sf sfox; nf0{:d/0f ub}

el6frf/ lgjf/0f Pj +To; sf]klt/flvdf cdl/sl /fllox; sf]; E7an] ; q\!((^ sf]dfr{@(df kfl/t u/\$f]e**i**6frf/ lj?4sf]cGt/cd**l**/sl /fi6x¿sf clwsf/lx¿sf] ell6frf/df; mllgtf af/\$f] dxf; lGw, cfly\$; xfotf tyf lj sf; ; DaGwL ; Ë7gn]; g\!((& sf]gf��j/ @! df kfl/t u/\flackfraceft/fli6@ Jofj; flos sf/f]f/df ; mlg j\flackfraceflzs ; fj\fligs clwsf/L; E ; DalGwt 3'; 1/; jt lj?4sf]dxf; lGw, o\flklo dlGqkl/ifb\sf] ; ldltåf/f!(((sf]hgj/l @& df kfl/t e|6frf/ ; DaGwl km/þbf/l sfgð dxf; lGw, o/fklo dlGgkl/ifbsf]; ldltåf/f !(((sf] gfeli/ \$ df

cgdflot ei6frf/; DaGwl b]fgl sfgg dxf; IGw / clkrsg; Ë7gsf/fHokdv tyf; /sf/kdvx; åf/f@))# sf]hhf0{!@ df kfl/t ei6frf/lgjf/Of tyf To; sf]k|t/flw; DaGwl clkrsl olgog dxf; IGw nufotsfei6frf/lgjf/Of / k|t/flw; DaGwl ax/fli6@ cfn]vx; nf0{; -; Ddfg Wbfqdf /fVb}

ax/fli6 α ; El7t ck/fw; Da6wl; Θ Qm /fi6xa8lo dxf; l6w; g\@))# sf]gf Φ 1j / @(df kf/De ePsf]s/fnf0{:jfut ub} b\$fo adf¶hd uq{d~h/ u/\$f 5g\W

kl/R5**§**— Ps ; fdfGo k¶j wfgx¿

wf/f ! p2]jo ; DaGwl clesyg

o; dxf; l(wsf b) fosf $\bar{p21}$ ox 2/x f 5g

-s_ei6frf/ lgjf/0f tyf To;sf] k|t/fi|v ; DaGwL pkfox; cem blftfkj { / k\epsilon f j sf/L ; kdf lj sl; t / ; b\vec{9} ug{

-v_e|6frf/ lgjf/0f tyf To;sf] k|t/f]v nufot ; DkIQ lkmtf{ ug] ; DaGwdf cGt/{li6@; xof]v / kf|j lws; xfotfsf]clej [4,; xhls/0f /; dyg ug{

-u_; fj hlgs sfo{ / ; fj hlgs ; DklQsf] OdfCbf/L, hj fkmblktf tyf plrt Joj:yfkqsf]clej [4 uq{.

wf/f @ kl/efiff

o; dxf; lGwsf]k\pflngsf nflu M

-s_a; fj hlgs clwsf/lÆ eGgfn](i) hg; s}jl/i7tfsf]eP klg sg}/fHo klfsf]lj wflosl, sfo&f/l, k‡f; lgs jf Goflos sfofhodf lgoQm jf lgjf{rt eO{ :yfol jf c:yfol ¿kdf /xl, kfl/>lds kfO{jf gkfO{ sg}kbdf axfn /x\$f]JolQm (ii) sg}; fj hlgs lgsfo jf ; fj hlgs ; #yfsf] nflu ; fj hlgs sfo{ ug[jf /fHo klfsf] cf^g} dhssf] sfggdf kl/eflift eP adf¶nd / /fHo klfsf]sg}vf; sfggl lfqleq /xl ; fj hlgs ;]f kbfg ug[cGo sg}JolQm (iii) /fHo klfsf]cf^g} dhssf]sfggåf/f Æ; fj hlgs clwsf/lÆ egl kl/eflift ul/Psf]cGo sg}JolQm; Dengk5{.

tyflk, o; dxf; lGwsf]kl/R5b-@ df plNnlvt sxl vf; pkfox; sf]

k\(f \) figs clwsf/L\(e \) e\(g \) figs clwsf/L\(e \) e\(g \) figs cf^g\(g \) dhssf] sfg\(g \) adf\(g \) fi \(h \) lgs sfo\(u g \) / ; fi \(h \) fg ug\(t y \) fo: tf]; b:o /f\(h \) sfg\(b \) L\(f \) leq kg\(g \) lo\(u \) fightgg; \(s \) fg\(g \) .

-v_ alj b½l ; fj hlgs clwsf/l/L eGgfn]sg}lj b½l dhssf]lj wflosl,
 sfo\sf/L jf Goflos sfof\hodf lgo\mjf lgjf(rt eO\shdf /x\shf]/
 sg\}; fj hlgs Ph(); L jf ; fj hlgs ; #yf nufotsf kbdf /xL lj b½l
 dhssf nflu ; fj hlgs sfo\slu|/x\shf]Jol\m ; d\frac{1}{2} ; Dengk5\sland.

-u_ æ; fj hlgs cGt/ni60 ; =yfsf]clwsf/l/LeGgfn]cGt/ni60 lghfdtl sdff/Ljf To:tf]; =yfsf tkmnf6 sfo{ug{clVtof/LkfPsf]

JolQmf0{; Dengk5{.

-3_ æ; DklQÆ eGgfn]efJts jf cefJts, rn jf crn, :kzlø jf c:kZo, hg; \$}k\$f/sf]; DklQ / To; k\$f/sf]; DklQ dflysf]xs jf lxt k¢lflOft ug{sfggl lnvt jf cfn}/; Demgk5{.

-a_ acfk/flws cfh@/ eGgfn]ck/fwhGo sfo@fk@t\; DalGwt kToIf jf

ckjolf ¿kdf cfPsf]jf kfKt ePsf]sg}; DkIQ ; Dengk5{.

-r_ æ/f\$sfÆ jf ÆsAhfÆ eGgfn]cbfnt jf cGo ; Ifd Igsfoåf/f hf/L
ul/Psf]cfb½sf cfwf/df ; DklQnfO{x:tfGt/Of ug{ kl/jt{g ug{
 laqn ug{ jf :yfgfGt/Of ug{af6 c:yfol ¿kdf lgifw ug{ jf
 ; DklQnfO{ c:yfol ¿kdf sAhf ug{ jf lgoGqOfdf lnghfO{
 ; Dengk5{.

-5_ æhkmtl h; df cj:yf cg; f/ x/0f klg kb\$, eGgfn]cbfnt jf cGo; lfd_lgsfosf] cfb½ adf¶hd ; DklQaf6 :yfol ¿kdf jl~rt

uglhf0{; Dengk5{.

-h_ a; Da4 s; //E eGgfn] To:tf] s; //nf0{; Dengk5{ h; af6 kfkt nfex; o; dxf; l6wsf] wf/f @# df kl/efiff ul/Psf] s; //; E ; Dal6wt lj ifo aGg; S5.

-em_ ælgolGqt cfklt@eGgfn]s; //sf] cg; Gwfg / s; // ug@f ; mlg ePsf JolQmx¿sf]klxrfg ug[p2]fon]; Ifd lgsfox¿sf]; k/lj]f0f / hfgsf/lsf ; fy Ps jf ; feGbf a9l /fHox¿sf]If@f aflx/ jf leq jf Ifgh eP/ u}sfggl jf zsf:kb vkx;nf0{cfkf}-bfkf} u/fpg cgdlt lb0g]kljlw;Demgk5{.

wf/f # nfu'xg]lf**g**

!= of] dxf; lGw o; } dxf; lGwåf/f :yflkt Joj:yf cg; f/, eiofrf/hGo s; //sf] lgj f/Of, cg; Gwfg / cleoflhg tyf cfk/flws cfhg /f\$sf /fVg] sAhf ug [/ hkmt ug [Pj +kmtf{ug [s/fdf xsdf nfu"xg]s].

e of]dxf; l6wsf]sfof(j ogsf]k\(\phi\flygsf\) nflu, o; df c6oyf pNn\(\frac{1}{2}\) eP adf\(\frac{1}{2}\) hd afx\(\frac{1}{2}\), o; dxf; l6wdf Joj:yf ul/Psf s; \(\frac{1}{2}\)x\(\frac{1}{2}\) n]s\(\frac{1}{2}\)}/fllosf]; bkl\(\frac{1}{2}\) fgl jf lflt k\(\frac{1}{2}\)of\(\frac{1}{2}\)os dfl\(\frac{1}{2}\)os dfl\(\frac{1}2\)os dfl\(\frac{1}{2}\)os dfl\(\frac{1}2\)os dfl\(\frac{1}2\)os dfl\(\frac{1}2\)os dfl\(\frac{1}2\)os dfl\(\frac{1}2\)os dfl\(

!= o; dxf; lGw cGtu{sf bfloTj lgjf{ ubf{ /fHo klfx;n] cGo /fHox;sf]cfGtl/s dfldnfdf x:tlfk gxb]u/L tyf /fHox;sf]lfqlo cv08tf Pj+;fj eft ; dfgtfsf I; 4fGtx;sf] ljk/Lt gxb] u/L ug{5g\

@= o; dxf; lGwdf pNn]v ePsf sg}klg Joj:yfn]sg}klg /fHo kIfnf0{
 csf[/fHosf] Ifqleq Ifqflwsf/sf] cEof; ug{/; DalGwt /fHosf]
 cfGtl/s sfggn] cf^gf lgsfox;nf0{ lg/k]f ; kdf k\(\psi\)fg u/\(\psi\)f

sfo(¿ ug(sg)klg clwsf/ kbfg ug b) .

kI/R5**]**— b0{ lgjf/0ff1ds pkfox; wf/f %

ei6frf/ lj?4sf lgjf/0ffds gllt tyf Jojxf/x;

!= klos /fHo klfn] cf gf] sfggl klffnlsf cfwf/et l; 4fGtx; sf] cgsh xg]u/l; fdflhs; xeflutfsf]clej [4 xg] sfggsf]zf; gsf l; 4fGtx; kltlalDj t xg] Pj +; fj hlgs; DklQ /; fj hlgs sfo{; sf]; dlrt Joj: Yffkg ul/g] OdfGbf/l, kf/blz{f / hjfkmblktf sfod /xg] u/l kefj sf/l /; dGj ofIds; kdf e|6frf/ lj/flyl glltx; lj sl; t ug I nfu"ug I/ sfod /fVg].

@= klos /fllo klfn] el6frf/ lgjf/0f ugl p2lon] kefjsf/L

Jojxf/x¿sf]:yfkgf / clej [4 ug]kþf; ug].

#= klos /flo klfn]elofrf/ /fsg / To; lj?4 n8g cf^gf; Da4 sfggl cfn]v / kzf; lgs pkfox; kofl(t 5g\jf 5g)g\egl kQf

nufpgsf nflu ltgsf]cfjlws dNoffg ug[k\psi; ug].

\$= /fHo KIfx¿n]pkoOmtf cg;f/ / cf^gf]sfgg kØffnlsf cfwf/et I;4fGtx¿ cg½k xg]u/l o; wf/fdf plNnlvt pkfox¿sf]kj4g / Ijsf; ug\$f nflu;Da4 cGt/Qi6@ Pj +Ifqlo;Ë7gx¿; E / Pscfk;df;fendf/l sfod /fVg\$g\ o:tf];fendf/lleq ei6frf/ Igjf/Of ug[p2]fo /x\$f cGt/Qi6@ sfoQmd / kl/of]hgfx¿df ;xeful xg]s/fx¿;dfj½ xg;\$g\$g\

wf/f ^ e¶6frf/-lj/f¶l lgjf/0fftds lgsfo / lgsfox;

!= kios /fHo kifn]cf^gf]sfgt kiffnlsf cfwf/et i; 4fGtx; cg; f/ei6frf/ lgjf/0f ug{pkoOmtf cg; f/ blfosf Joj:yf cg; ksf lgsfo jf lgsfox; u7g ug{sfo{; lglZrt ug{} M

-s_o; dxf; l6wsf] wf/f % df pNn\varphi ul/Psf glltx; nfu" ug{ /,
 pkoQmtf cg'; f/, tl glltx; sf] sfof(j og klfsf] l; xfj nf\sq /
 ; d6j o ug{

-v_ eilofrf/ lgj f/0f; Da6wl 1fg clej [4 /; Dk]f0f ug{.

@= klos /fHo klfn] cf^gf]sfgbl klffnlsf cfwf/et l; 4f6tx; cg'; k
xb]u/l, o:tf lgsfo jf lgsfox;n]sb}klg cglrt kefjaf6 d0m
/xl] / kefjsf/l ; kdf cf^gf]jf cf^gf sfo{~rfng ug{; lfd /xg
; Sg]u/l o; wf/fsf]k\$/0f ! df pl\nlvt lgsfo jf lgsfox;nf0{
cfjZos :jtGqtf kbfg ug\s. To:tf lgsfox;nf0{cfjZos efl\ts
; fl / ljlzi6lst sd{f/l nufot tl sd{f/lnf0{cf^gf sfo}{;
ug\sf nflu cfjZos kg{; Sg]tfnld ; dt kbfg ug\sc b\s.

#= klos /fHo klfn]el6frf/ lgjf/Ofsf nflu vf; pkfox; ljsl; t ug{ / sfof(j og ug{c; /fHo klfnf0{; xfotf klofpg; Sg]lgsfo jf lgsfox; sf]gfd / 7lufgf af/]; eQm /fi6xassf dxf; lrjnf0{; lrt

ug₫ .

wf/f & ;fj**t**ilgs lf**g**

!= kios /fHo kIfn] pkoOmeP; Dd / cf^gf]sfggl kiffnlsf cfwf/et I; 4fGtx; cg; k xg] u/l, lghfdtl sdff/lx; / pkoOmeP; Dd cGo clgjffrt ; fj hlgs kb wf/Of u/sf JolOmx; sf] egf{ ug} (recruitment), lgolOmug[(hiring), sfod /fVg] a9jf / cjsfz ; DaGwl k4lt nfu"ug{oyfjt /fVg / ; anlst ug{kbf; ug} M

-s_tl_s/fxخ ; Ifdtf, kf/blz{ff / j:tut_cfwf/xخ, h:t) of]otf,

; dGofo / cflht Ifdtfsf I; 4fGtx; df cfwfl/t xg\$g;\

-v_tl s/fx¿leq vf; u/l e/ofrf/ xb; Sg]vt/f /xsf]dflgg]; fj hlgs
kbx¿df JolQmx¿sf]5gfø / tfnld kbfg ug{/; Dej eP; Dd To:tf
JolQmx¿nf0{c¿ kbdf :yfgfGtl/t ul//xg]kofkt kl/kf6lx¿ ; dfj }z
xbfg/\

-u_tl_s/fx; leg /flo klfsf]cfly\$ lj sf; sf]b/nf0{Wbfqdf /fVb}koff(t

kfl/>lds / Gofof]rt tnadfg clej [4 ug]s/f kg]5g\

-3_tl s/fx¿leq To:tf clwsf/lx¿nf0{; fj hlgs sfo{; dlrt, ; xl / ; Ddfghgs tl/sfaf6 ; Dkfbg ug{cfj Zos xb] oflotf kbfg ug{ | zlff / tfnld ; DaGwl sfo{mdx¿ lj sl; t ug{/ pglx¿n] cf^gf] sfo{Dkfbg ug{ s/f; E cGt/lglxt /xsf] e|6frf/sf] ; DefJo hflvdk|t hfu?stf clej [4 ug{lj | zi6lst / ; dlrt tfnld kbfg ug{ s/f kgsq\ o:tf sfo{mdx¿n]; Da4 | fqdf cfrf/; kxtf jf cfr/0fsf dfkb08nf0{|glbt6 ug{; Sgsq\

@= kios /filo kifn] o; dxf; lwsf p2iox;sf] cgsh xg] u/l /
cf^gf]dhssf]sfgtl kiffnlsf cfwf/et l; 4f6tx; cg';k xt]u/l
; fj filgs kbsf]pidbjf/l / lgjffg; ti ; Dal6wt cfwf/x; ktfg ug{
; dirt lj wflosl / kt/; lgs pkfox; nfu"ul/g]lj ifodf klg lj rf/

ug5 .

#= k[os /fHo kIfn] o; dxf; l6wsf p2]tox; sf] cgsh xg] u/l / cf^gf]dhssf]sfgbl k()ffnlsf cfwf/et l; 4f6tx; cg; k xb]u/l, lgjf(rt xb]; fj hlgs sfofho / /fhgllts bnx; sf]sf]f ; Da6wl lj ifodf nfu"xb]xb; Dd kf/blz{f clej [4 ug{; dlrt lj wflosl / k½f; lgs pkfox; nfu"ug][j ifodf klg lj rf/ ug].

\$= ktos /fHo klfn]cf^gf]dhssf]sfgtsf cfwf/et l; 4f6tx; cg;k kf/blztf clej [4 ug]/ :jfy{; a3ifhf0{lgjf/0f ug]k4lt cgdfbg

ug{sfod /fVg / To; sf]; j nls/0fsf nflu k\(bf; ug\(b \).

wf/f * ;fjfsclwsf/lx;sf]cfrf/;lxtf

!= klos /fHo klfn]el6frf/ lj?4 n8gsf nflu, cf^gf]sfggl klffnlsf cfwf/et l;4fGtx; cg;k xg]u/l cf^gf;fjhlgs clwsf/lx;df cGo s/fsf cltl/Qmlgi7f, OdfGbf/L / pQ/bfloIj clej [4 ug]5.

e= kijos /filo kifn]; fj higs sfos(غزsf]; xl, ; Ddfghgs / ; dirt ; Dkfbgsf nflu lj zijf u/l, cf^gf ; ::yfut / sfgbl k4ltxغleq cfrf/; lxtf / cfr/0fsf dfkb08x¿ nfu"ug{k\psif; ug\bar{b}}.

#= klos /fHo klfn]o; wf/fsf kljwfgx; sfofljog uglk\psf nflu, pko\m eP; Dd / cf^gf]sfg\lambda k4ltsf cf\psf/et l; 4f\tx; cg\;k x\lambda]u/l, dxf; efsf]!@ l8; \lambdaj / !((^ sf]k\rangletfj g\rangle\psi!\rangle\psi(sf]k\rangle\tau fillo cff/; lxtf h:tf lf\lambdalo, c\tau t/lf\lambdalo / axklflo ; \text{E7gsf}; Da4 k\psi; x\rangle nf0\{ hfgsf/ldf lng\lambda}.

\$= k\io\s\ /filo k\int fn\rightarrow cf^gf\rightarrow dh\ssf\rightarrow sfg\gsf cfwf/e\tau\; 4fGtx\rightarrow
cg\color\k x\barg\rightarrow u/\s\ x\barg\rightarrow u/\s\ f\ JolOmx\rightarrow nfO\{cf^gf\rightarrow
sfo\{Dkfbgsf\rightarrow i, n\rightarrow nfdf e\int 6frf/sf\rightarrow sfo\{ePsf\rightarrow ePsf\rightarrow e\int 6f\rightarrow f\rightarrow nfgsf/L x\barg\rightarrow cfPdf, pglx\rightarrow n\rightarrow ; f\rightarrow f\s\ k\htarrow g\rightarrow x\rightarrow sf\rightarrow nf\rightarrow nf\

ug 5.

%= klos /fHo klfn] pkoQm eP; Dd / cf^gf]sfggl k4ltsf cfwf/et
l; 4f6tx; cg;k xg]u/l, ; fj filgs kbflwsf/ln]To:tf]kbflwsf/lsf]
¿kdf cf^gf]sfo{ Dkfbg ubf{:j fy{; aSif{(Conflict of Interest)
blyg ; Sg] cf^gf afXo lqmofsnfkx;, /flhuf/l, nufgl, ; DklQ /
7hf7hf pkxf/ / nfe kfkt ugl nufotsf s/fx; af/]; Da4
lgsfo; dlf 3flf0ff uglk4lt / pkfox; :yflkt ug{k\phif; ug\psi.

^= klos /fHo klfn] cf^gf]sfggl k4ltsf cfwf/et l; 4fCtx; cg'; k xg]u/l, o; }wf/fåf/f :yflkt cfrf/; lxtf jf dfkb08x; pNn3g ugI ; fj filgs kbwf/0f u/sf JolQmx; lj?4 cgzf; gflds sf/jfxl ugI

jf c6o pkfo cjnDag ug‡km(ljrf/ ug∯ .

wf/f (;fjfdgs vl/b Pj+;fjfdgs ljQsf]Joj:yfkg

!= kios /fHo kIfn] cf^gf]sfggl k4ltsf cfwf/et I; 4fGtx; cg; f/, cGo s/fsf cltl/Qm, ei6frf/ lgjf/0f ug{ kefjsf/l xb] u/l kf/blz{tf, k||t:kwf{/ lg0f6-lgdf@f k||qmof j:tut cfwf/df xb]u/l

pkoQm vI/b k4lt :yflkt ug{cfjZos sbd rfNg\$. o:tf k4lt, h; n] cf^gf] sfof(j ogdf ; dlrt cfwf/ dNonf0{Vofn ug5g\n]

cGo s/fsf cltl/QmlqDg s/fnfO{; DafNwt ug\$g\M

 $-s_{\cdot}$; DefJo 608/bftfx; nf0{cf^gf]608/ tof/ ug{/ k½ ug{koff(t ; do klpfg ugsf] nflu 608/ cfJxfg ; DaGwL ; trgf / 7\$sfksf ; DaGwl ; Da4 / dxTj kOf{ ; Hgf nufot vI/b-lagml ; DaGwl sfolj lwx; / 7\$sfk\fx; & ; DalGwt ; rgfsf]; fj hlgs ki fx\l

-v_5gfø/kbfg ug[zt{/60/8/;DaGwLlgodx;/ltgsf]k\$fzg

nufot ; xeflutfsf zt{¿sf]clu¢ Joj:yf ; DaGwlÙ

-u_lgod / sfol[lwx;sf]; xl koffl eP gePsflaf/ltbgCt/ hfFaem kllgmofnf0{;xhls/0f ug\$f] nflu ;fj.hlgs vl/b-lagnu ;DaGwl lq0f6sf lqldQ j:tut / kj/lqwfl/t cfwf/x; sf]k6flul

-3_o; k\$/0f adfInd :yflkt lgod / sfolj lwx; kfngf gePsf] cj:yfdf sfgyl pkfo / pkrf/; lglZrt ug{ky/fj hgsf]k\efj sf/l

kÍffnl nufoť cfitl/s kg/fj nf\$gšf]kefj šf/l kþffnli

-a pkoOmtf cg; f/, vI/b / kflktsf nflu lhDd]f/ sd{ff/L; & ; DalGwt ljifox;, h:t} vf; ; fjfilgs vl/b; tī ; DalGwt :jfyf[sf] 3f]f0ff, 5gf) ug[; DaGwl sfo[j lwx; / tfnld cfj Zostfx; E ; DalGwt s/fx; Igoldt ug{pkfox; U e= klos /fHo klfn] cf^gf]sfgyl k4ltsf cfwf/e't I; 4fGtx; cg;k

xbj] u/L ; fj hlgs lj Qsf] Joj : yfkgdf kf/blz{f / lhDd]f/Lsf] clej [4 ug{; dlrt pkfox; cjnDag ug] . To:tf pkfox; df,

cGo s/fsf cltl/QmlgDg s/f; dfj ½ xg5gW

-s_/fli6@ ahb cgdfbg; DaGwl sfoli lwx; D

-v /fhZi / Joosf]; fdlos hfqsf/ll

-u n√f tyf n√fk/Llf0fsf dfkb08 ; DaGwL k4lt / ; Da4 lgoGq0fÙ

-3 hflvd Joj:yfkg / cfCtl/s lgoGqOf; DaGwL kefjsf/L /; Ifd k4ltll

-a pkoQm eP; Dd o; k\$/0fdf Joj1:yt kfjwfgx;sf] kl/kfngf ug{ c; km ePsf cj:yfdf ln0g]; wf/fIds sf/jfxL.

#= klos /fHo klfn] cf^qf] dhssf] sfg\u00e4sf cfwf/et I; 4fGtx; cg;k xg]u/l nyf; DaGwl;]tfx;, clenyx;, lj Qlo lj j /Ofx; jf;fjhlgs vr{//fhZj;DaGwlInvtx;sf]z4tf sfod/fVg/ To:tf Invtx;sf]ldYofs/Of /f\$g cfjZostf cg;ksf b]fgL / kzf; lgs pkfox; cinDag ugb.

wf/f !)

; fj. filgs ; frgf k. fix k. fo. filo k. fin] e. fo. frf/sf] k. f. filo ug{ cfj. Zos kg. s. frn fo.{ Wbfgdf /fvl, cf^gf]dhssf]sfgysf cfwf/et I; 4f6t cg'zk xb]u/L, pkoQmtf cg; f/; E7g, Igmofsnfk / IgOf6-Igdf@f kllgmofx; nufotsf ; filhlgs kzf; g ; Daßwl lijifodf kf/blztf a9fpg cfilZostf cg; f/sf pkfox; cjnDag ug\$ o:tf pkfox; df, cGo s/fsf cltl/Qm laDa s/fx¿; dfj **½** xg ; Sq**5**g\M

-s_; j { fwf/0f hgtfnf0{ pkoOmtf cg'; f/ ; fj hlgs kzf; gsf ; Ë7g, lqmofsnfk / lg0f6-lgdf0f kllqmofx;sf] af/0ff / uffkqlotf Pi + iolOms ; rafx; sf]; AlfOfnfO{; dlrt ; Ddfq kbfq ub}; j { fwf/Of hgtf; & ; DalGwt lgOf(x; / sfgt)L sfox(; sf ; DaGwdf, ; thgf kflkt ug{cgdlt kbfg ug{u/l sfolj|w / lgodx; nfu"ugl

-v_lg0f() ug[; Ifd clwsf/lx;; Dd ; j { fwf/0fsf]kxFnf0{; /nlst ug[kofhast nflu pkoQmtf ca; f/ kzf; las sfoli lwx; ; /nls/0f ual /

-u_ ; fj filgs kt; gdf xg ; Sg]ei[6frf/sf]hfi]vd af/]cfj lws kltj bg ; dflxt ePsf]; rgf k\$flzt ug{.

wf/f !!

**Cofokfinsf / cleofing ;]f; & ; DalQut pkfox; != kios /filo kifn] Gofokfinsfsf] :j tGqtf / eiGfrf/sf] kit/filodf o; sf] dxIj kUf{ eldsfnf0{ Wofgdf /fVb} cf^gf] sfgÿl k4ltsf

cfwf/e't l; 4fGtx¿ cg½k xb] u/l / Gofokflnsfsf] :j tGqtfsf] k||tsh gxb] u/l Gofokflnsfsf ; b:ox¿sf] lgi7f a9fpg] / pglx¿nf0{e|ofrf/sf]df}sf k||kt xb glbb]pkfox¿ cj nDag ug\$. o:tf pkfox¿ cGtu{ Gofokflnsfsf ; b:ox¿sf] cfrf/; lxtf; E ; DalGwt lgodx¿ ; d‡ kg{; Sg\$g\

@= tl /filo klfx¿, hxfFcleoflng; jf Gofokflnsfsf]cE gePsf]t/
o; ; jfn]Gofo ; jfn]h:t}:jtGqtfsf pkeflu ug[ub5, df o;
wf/fsf]k\$/0f! df pNnV eP;/xs}pkfox¿sf]yfngl ug{/ nfu"

ug{; lsq\$.

wf/f !@ Ighl If**g**

!= kios /fHo kIfn]lghl Ifq; t; DalGwt ei6frf/ lgjf/0f ug{cf^gf] dhssf] sfggsf cfwf/et l; 4fGtx; cg;k xg] u/l lghl Ifqdf n]vf / n]vfk/LIf0fsf dfkb08x; ljsl;t ug{pkfox; cjnDag ug\$ / pkoOmtf cg;f/ To:tf pkfox;sf]kl/kfngf ug{c;kmn /xdf kefjsf/l cfgkflts / b?T;fxgdVl (dissuasive) b]fgl, k‡f;lgs jf kmfhbf/l b08 lbg]Joj:yf ug\$.

@= tl p21/o kf/kt ug/pkfox¿df, cGo s/fsf cltl/Qm lgDg s/fx¿

; dfj≱ xg; Sg\$gWi

-s_sfgg_sfof(j og ug[lgsfox; / ; Da4 lghl Osf0(sf alr ; xof(lsf)

clej [4 ug[[

-v_/fllo / Joj; folx¿ alr s/f/lo; Daßw /fVg / Joj; folx¿ alr c; n Jofkfl/s Jojxf/x¿sf]kþfludf clej [4 ug{/ :jfy{; aßif\stift} lgjf/0f ug{/; Da4; a}k½fx¿ / Jofj; flos lqmofsnfkx¿sf]; xl, ; Ddfghgs /; dlrt; Dkfbgsf nflu cfrf/; lxtf nufot; Da4 lghl OsfO\(\)¿sf]:jfledfgsf] /Iffsf nflu Jojl:yt dfkb08x¿ / sfo\(\)jlwx¿sf]ljsf; sf]kj 4\(\)j ug.

-u_ ; :yfut lgsfox;sf] :yfkgf / Joj :yfkgdf ; nllg /xsf sfgt/ kfs[ts JolQmx;sf]klxrfg ug[nufotsf lghl 0sf0%;df kf/blzff kj4g ug{pkfox; pkoQmtf cg; f/ cj nDag ug{}

-3_; fj hlgs | lgsfox; n] Jofkfl/s | lqmofsnfksf]; DaGwdf 5b / cgblt-kq kbfg ug{; DaGwl sfolj lwx; nufotsf | lghl Osf0\{f}]

lgodg ug{sfolj lwxzsf]bzkoflu xg /fs nufpgl)

-a_ ; fj higs kbwf/Of u/\$f JolQmx; n] cf^gf] sfo&fndf kbdf /xbf ; k/lj]fOf u/\$f jf To:tf sfo{ubf{jf sfddf /xbf kiolf ; kdf ; DaGw ePsf lqmofsnfk; ti To:tf ; fj higs clwsf/lx; n]/fhlgfdf u/kl5 jf cjsf; kikt u/kl5 pglx; nfO{lghl lfin]sfddf nufpg] ; DaGwdf jf kj { ; fj higs clwsf/lx; sf Jofj; flos lqmofsnfk ; DaGwdf pkoOmtf cg'; f/ / dgfl; j ; dofj lw; Dd k|taGw nufP/ :jfy{; a'Sif@f /f\$ nufpgi]

-r_lghl k|\ti7fgx\geqsf]; Argf / cfsf/nf0{\bfgdf /fVb}e|\fofrf/hGo sfo\foff]\f\f\graphyfd ug\forall k\text{Nof nufpg]sfo\text{df}; xof\forall k\text{vofpg]l}; nl; nfdf kof\text{t cfGtl/s n\forall fk/LIfOf lgoGqOf; DaGwl Joj:yfx\geqsf]lj Bdfgtf / To:tf k|\ti7fgx\geqsf]n\forall f / lj \text{Qlo lj j /Ofx\geq pko\text{Qm n\forall fk/LIfOf / k\text{dfOfls/Of sfo\text{j lwsf]cwlqdf /xq]s\foff}; lqlZrttf k\text{bfg uq\text{\text{\text{lfOf}}

-s_jf:tljs >]tf aflx/}n\ranglef /fVg\rangle

- -v_jf:tljs >]tf aflx/}jf kofkt ¿kdf klxrfg xg g; Sg]lsl; dsf sf/f]f/x¿ b]yfpgil
- -u_ cl:tTj d}g/x\$f vr{{ k} lx; fa lstfadf b}yfpgl
- -3_ lj ifosf]unt klxrfg xg]u/l bfloTj sf]pNnl/ ugi(

-a_ unt lnvtx; k\pf\u ug\(\bar{\mathbb{l}}\)

- -r_sfgÿn] lgwf{Of u/∳Gbf cufj} vftfkftf ; DaGwL lnvtx≥ dg; fokj { gi6 ug{.
- \$= k[o]\$ /fHo kIfn] s/56 ug{ ofJo vr\{f} lgwf\{0f ubf\{pkoQm

eP; Dd o; dxf; lGwsf]wf/f !% / !^ df pNn]v eP cg; f/ s; /hGo tTj sf] \geq kdf :yflkt 3; / e|6 cfr/0fnf0{ kf]; flxt ug] cGo vr{\(\) sf]u0fgfnf0{lgif]v ug} .

wf/f !# ; dfhsf]; xeflutf

- != kios /fHo kIfn]cf^gf]Ifdtf / cf^gf]dhssf]sfgigsf cfwf/et
 l; 4fCtx; cg'; k xg] u/l ei6frf/n]l; h@f ugirgf]t / To; sf]
 cl:tTj, sf/Of / uDel/tfsf; DaGwdf; j { fwf/Ofdf hfu?stf Nofpg
 / ei6frf/ lgjf/Of ug{ tyf To; lj?4 n8g, gful/s; dfh,
 u}; /sf/l; #yf /; dbfodf cfwfl/t; #yfx; h:tf; fjihlgs Ifq
 aflx/sf JolOmx; /; dxx; sf]; lqmo; xeflutf clej [4 ug{; dlrt
 pkfox; cj nDag ugi . o:tf]; xeflutfsf]; anls/Of lgDgfg'; f/sf
 pkfox; åf/f ul/gk5{M
- -s_lg0f6 lgdf6f kllqmofx;df kf/blz{f / ;j{fwf/0fsf];xeflutf clej[4 uq{sfofi0{a9fjf lbP/l}
- -v_; j { fwf/0fnf0{; Fgf; Ddsf] k\(\phi\)fj sf/L kxF kUg] s/fdf ; IglZrttf | lbnfP/\(\bar{U}\)
- -u_ lj Zj lj Bfno Pj +lj Bfno:t/lo kf7&qmd nufotsf ; fj filgs lz lff sfo@mddf ei6frf/ kllt c; lxi0ftf kllyf ug [; fj filgs ; ltgf kllyffnl cj nDag u/]i)
- -3_ eiofrf/; E ; DalGwt ; rgfx¿ vfhl ugi kfkt ugi k\$flzt ugi/
 kj flxt ugi :j tGqtfsf] ; Ddfg, kj 46 / ; AfOf u/j. To:tf]
 :j tGqtf sg} vf; k||taGwx¿sf] clwg:y xg ; Sgb, t/ o:tf
 k||taGwx¿ M
 - (i) cGo JolQmx¿sf clwsf/x¿ / k||ti7fsf]; Ddfg ug\sf nflu\)
- (ii) /fli6@ ; //Iff jf ; fj hlgs ; Joj:yf jf ; fj hlgs :jf:y jf gltstfsf] / Iff ug\sf nflu\ldot\ sfg\data/f Joj:yf ul/Psf] / cfj Zos ePsf]x\data\sf.

@= kios /fHo kIfn]o; dxf; l6w cg; f/ s; // ePsf]dflgg]sg}klg
36gf af/]pkoOmtf cg; f/ cf^gf]gfd pNny gul/sg; dt; ; Irt
ug{ ; Dal6wt lgsfox¿; Dd kxF kbfg ug[; Da6wdf / o;
dxf; l6wdf Joj:yf ul/P cg; ksf ei6frf/-lj?4sf lgsfox¿af6
; j { fwf/Of hgtfnfO{ hfgsf/L xb] Joj:yf ; lglZrt ug{ ; dIrt
pkfox¿ cj nDag ug.

wf/f !\$; DkIQ z4ls/0f /f¶g]pkfox;

!= klos /fHo klfn/

-s_dbf / dNosf]k|f/ ug\$f nflu cfkrfl/s / cgfkrfl/s ;]f k\psign ug_I kfs[ts jf sfg\text{g}l JolQmx\text{z} / ; a}lsl; dsf ; DklQ z\text{2ls/0f sfo\psif0{b?T; flxt ug{/ kQf nufpgsf nflu cf^gf] sfo{f\text{g}leq cfj Zostf cg\text{z}k, vf; u/l ; DklQ z\text{4ls/0f; \text{E} ; j\psign gzlntf /fVg] c\text{G} lgsfox\text{z}, nufot a\text{s} / u\text{a}\text{s}\text{hG} lj Qlo ; \text{\text{syfx}\text{z}sf nflu ; du|k\text{ftsf]cf\text{cf}tl/s lgodg / ; k/lj]f0f ug_Ik4lt : yfkgf ug_Isq\text{T} lo:tf]k4ltn]pkef\text{Qmsf cfj Zostf / pkoQmtf cg\text{z}k, nfe k\text{\text{k}t ug_Iwglsf]klxrfg ug_I clen\text{y} /fVg]/ z\text{sf:kb sf/f]f/x\text{\text{z}sf]; \text{\text{rgf lbg}}sfo\text{\text{f0}f0{a9fjf lbg}\text{\text{b}}}

-v_o; dxf; lGwsf] wf/f \$^ sf] k|tsh gxg] u/l, ; DklQ z4ls/Ofsf]
k|t/f] ug{k|ta4 /x\$f k\text{zf; lgs, lgofds, sfg\text{g} sfof(j og ug]/
cGo lgsfox;; E -cf^gf] dhssf] sfg\text{g} adf]hd pkoOmtf cg\; f/
Goflos lgsfox; ; d\text{d}_cf^gf] dhssf] sfg\text{g}f/f Joj:yf ul/Psf
zt\text{zleq /xl /fli6@ / cGt/fli6@ txdf; xof\text{ug}]/; \text{rgf cfbfgk\text{kfg ug} lfdtf; lglZrt ug\text{g}\text{y} To; p2\text{Josf nflu; Deflj t
; DklQ z4ls/Of; E ; DalGwt; \text{rgf ; \text{sng ug} lj Zn]fOf ug}/
k\text{jflxt ug} /fli6@ s\text{b\text{sf}} \; kdf sfo\{ ug\text{lj Qlo lgu/fgl PsfO\text{}
:yfkqf ug\text{lj rf/ ug}\text{5}.

@= /fHo klfxzn] j) khlsf] cf}kf]-bf}kf]df sb}klg lsl; dn] cj/fj}

gug[u/l / ; hgfsf] ; dlrt kþflinf0{ ; lglZrt ug[; /lff Joj:yfx¿sf] cwlgdf /xl, cf^gf ; ldfx¿leq gub / ; dlrt lj lgoflhg clwsf/kqsf] cflxf]-bflxf] (movement) kQf nufpg] / lgu/fgl ug[; DefJo pkfox¿ nfu"ug{lj rf/ ug[5]\ o:tf] pkfo cGtu[JolQm tyf Joj; fox¿n]pNn]vglo kl/df0fdf gub / ; dlrt lj lgoflhgkqx¿sf]xg]; ldf j f/kf/ :yfgfGt/0fsf]af/dlf ; hgf lbgkg[s/f kg{; Sg[5].

#= /fllo klfx;n]dbf| lj k]fs nufotsf lj Qlo; #yfx;sf]nflu cfj Zos kg[pkoQm /; DefJo pkfox; cj nDag ug{ lgDgfg'; f/ lj rf/

ug 5gW

-s_ljBtlo dfWodaf6 /sd snd :yfgfGt/Of ug{; DalGwt kmd@f
pbWdstf@f6 Psbd}; xl / ; f/et ; thgf Pj +; DalGwt hfgsf/lx;
; dfj througk@f

-v_eQmfgLsf > frnfa4 txel/ g}o:tf ; rgf sfod /fVgf

-u_; DkOff; rgf knkt gePsf pbudstfaf6 /sd snd :yfgfGt/Of

ePsfølf a9l ; tstf ckgfpg].

\$= o; wf/fsf]zt{cg½k / o; dxf; lGwsf cGo wf/fx¿sf]k|tsh gxg] u/l cfGtl/s ¿kdf lgofds / ; k/lj]fOflo k\ffnl :yfkgf ug[qmddf /fHo klfx¿nfO{; DklQ z4ls/Of lj?4 sfo{t lf\fqlo, cGt/lf\fqlo / axklflo; E7gx¿sf; Da4 k\fq; x¿nfO{dfu\fqsf]¿kdf k\fqlu ug{cfXjfg ul/G5.

%= /fHo kIfx;n]; DkIQ z4ls/Ofsf] k|t/fysf nflu Goflos, sfgtj
sfof(jog / ljQlo lgofds lgsfox; alr ljZjJofkl, Ifylo,
pkIfylo / låkIflo; xof(Jusf]ljsf; / kj4(jug{kof; ug{sg\}

kl/R5**1)**- tlg ck/fwls/0f / sfgt sfof**(j** og *wf/f !%*

/fli6@;fjfdgs clwsf/lsf]3; l/;jt;DaOwl

kījos /filo kijīn] igDg sfos; dg; fokj s ui/Pdf To; nf0{ knflnbf/l s; / :yflkt ug u/l cfj Zostf cg; f/ lj wflosl / cGo pkfox; cj nDag ug 5 M

-s_sg}; fj filgs clwsf/laf6 lghsf]; fj filgs st{ox; kfngf u/fpg jf kfngf ug{ OGsf/ u/fpgsf nflu To:tf] ; fj filgs clwsf/l :jonfO{jf cGo JolQm jf lgsfonfO{kfolf jf ckfolf ; kdf, sg}

cgirt nfesf nflu klt1f ug{kltfj ug{jf klpfg ugl

-v_sg); fj hlgs clwsf/ln]cf^gf]; fj hlgs st{ox; kfngf ug{jf kfngf ug{if ug{if ug{if olsf/ ug{sf nflu To:tf]; fj hlgs clwsf/l :jo+cfkmhf0{jf cGo JolQmjf lgsfosf nflu To:tf]; fj hlgs clwsf/ln] kfolf jf ckfolf ¿kdf sg}cglrt nfesf]lglDt ofrgf ug{jf :jlsf/ ug{.

w//f!^ |jb]t| ;fjKlgs clwsf/l / ;fjKlgs cGt/Li6& ;Ë7gx;sf clwsf/lsf]3; l/;jt ;DaGul

!= klos /fHo klin] sg}ljbll; fjhlgs clwsf/l jf sg}; fjhlgs cGt/{li6@; E7gsf]clwsf/lnf0{lghaf6 p; sf]kblo st{o kfngf u/fpg jf p; sf]kblo st{o kfngf gu/fpg, sg}Joj; fohGo sfo{ kfkt ug{jf Io:tf] sfo{ sfod /fVg jf cGt/{li6@ Joj; fohGo sfo{~rfngsf l; nl; nfdf cglrt kmf0bfsf nflu, klolf jf k/f]f ¿kdf clwsf/l :jo+jf cGo JolQm jf lgsfonf0{cglrt nfesf] k|t1f ug{jf k|tfj /fVg]jf kbfg ug{sfo{dg; fokj & u/dlf Io:tf]

sfofif0{ cfj Zostf cg', f/ kmlnbf/L s; // :yflkt ug{Sg] u/L

ljwflosl/cGo pkfox¿ cjnDag ug∮.

@= klos /fHo klfn] sg}ljbzl; fjhlgs clwsf/ln]jf sg}; fjhlgs
cGt/Ni6@; E7gsf] clwsf/ln] p; sf] kblo st{o kfngf ul/lbP
jfkt jf ug{OGsf/ ul/lbP jfkt sg}lgsfonfO{kloIf jf k/f]f
¿kdf cglrt nfesf nflu Io:tf]clwsf/ln]cfuk ug{jf:jlsf/ ug{
sfo{dg; fokj \$ u/df Io:tf sfohfO{cfjZostf cg; f/ km/hbf/l
s; // :yflkt ug{ljwflosl jf cGo pkfox¿ cjnDag ug{ljrf/
ug{}.

wf/f !& ; fj filgs clwsf/låf/f ; DklQsf]lxgfldgf ug][b'; kof¶ ug]jf cloq nufpg]; Dalwl

klos /fHo klfn]sg}; fjhlgs clwsf/ln]cfknFjf cGo JolQmjf lgsfonfO{nfe klofpgsf nflu lghsf]kbsf]cfwf/df lghdfly; fjhlgs clwsf/lsf xl; otn]; lDkPsf]sg}; fjhlgs jf lghl /sd jf lwtfkqx¿jf dNo /xsf]cGo sg}j:t'lxgfldgf jf b½koflu jf cGoq nufpg]u/ldg; fokjs u/sf]sfohfO{kmlhbf/ls; //sf]¿kdf:yflkt ug{cfjZosljwflosl / cGo pkfox¿ cjnDag ugs.

wf/f !* k¢fjsf]b;; kof¶

klos /filo klfn] bixfosf sg}sfo{dg; fokj \$ ul/Pdf, ltgnf0{
cfj Zostf cg'zk knfj\nbf/l s; / :yflkt ug{lj\wflosl jf cGo pkfoxz

cjnDag ug{af/df ljrf/ ug{5g\\}

-s_/fllo klfsf] kt/f; g jf ; fj/hlgs lgsfoaf6 ; DalGwt sfosf] dh b?T; fxgstf{jf cGo sg}JolQmnf0{cglrt nfe kt/ofpg] bfi6af6 ; fj/hlgs clwsf/L jf cGo JolQmnf0{lghsf]jf:tljs jf cgdflgt kt/fj bt/koff u/fpgsf nflu sg}; fj/hlgs clwsf/L jf cGo sg} JolQmf0{kijoIf jf ckijoIf ¿kdf cglrt nfe kijofpg kijt1f ug{ k|tfj ug{jf To:tf]nfe kbfa ual

-v_/filo_klfsf]kzf; g_jf_; fj_hlgs_lgsfoaf6_cglrt_nfe_kfkt_ug{ bli6af6; filhligs cliwsf/L if cGo sq}JolQmf0{lghsf]jf:tljs jf cadflat kefjsf]b; koflu u/fpqsf nflu sq}; fj hlqs clwsf/L jf clo sq}JolQmn]cfkmFif clo sq}JolQmaf/f ktolf if cktolf > kdf cgirt nfe k\fofpq ofrqf uq\{jf :jlsf/ uq\f.

> wf/f !(st{osf]b;kof

klos /fllo klfn] sq}; fj hlas clwsf/ln] cf^qf] st{okfnqsf] I; nI; nfdf cfkM if cGo sg}JolQm if lgsfonf0{cglrt nfe kfkt xg]u/L sfggsf]pNn3gåf/f, sg}sfd u/] jf gu/] st{o jf kbsf] b; kofu dg; fok s u/sf] sfohf0{ cfi Zostf cg; f/ knfhbf/L s; / :yflkt ug{ljwflosl if c6o pkfox; cjnDag ug{af/df lirf/uq5.

wf/f @)

u/sigtl ; Dklgtf
kijos /filo klfn] cf^gf]dhssf]; ljwfg / sfgtl k4ltsf cfwf/et I; 4fCtx; sf] cwlgdf /xl dg; fokj (\$ xfl; n ul/Psf] u}sfgbl ; DkGqtf cyff sq) ; fj hlgs clwsf/ln] cf^qf] jily cfDbfqLsf] thqfdf cfkm & /xsf]; DklOsf]; f/et j [4nf0{ts{Et tl/sfaf6 kli6 ug{g;s\$f]cj:yfnf0{cfjZostf cg;f/ljwflosl/c6o pkfox; cinDag u/L kmhbf/L s; / :yflkt ugls/f nfu"ug{lirf/ ug₫.

w/f@! |ghl |fgdf 3; |/;jt

kijos /filo klfn] cflys, lj Qlo j f Jofkfl/s lqmofsnfkx;sf]l; nl; nfdf dg; fokjs ul/Psf bjfosf sfo{;nf0{kmijnbf/L s; // :yflkt ug{ cfj Zostf cg'; f/ lj wflosl / cGo pkfox; nfu" ug‡km{lj rf/

ug ™

-s_lghl Ifqsf]lgsfosf]nflu sb}klg xl}; otdf /xl lgbfzt ug{jf sfo{ug{sb}JolQmnf0{lghsf]st{oaf6 Rot ug{jf sb}sfd u/fpg jf gu/fpgsf nflu To:tf]JolQm:jo+jf c6o sb}JolQmnf0{kfolf jf ckfolf ¿kdf cglrt nfe kfofpg klt1f ug{kltfj ug{jf kltg ug{}

-v_lghl lfqsf]lgsfosf nflu sg}klg xl; otdf /xl lgblzt ug{jf sfo{ug{sg}JolQm]cf^gf]st{oaf6 Ro't xg jf sg}sfd ug{jf gug\$f nflu :jom]jf cGo JolQmsf nflu kloff jf ckloff jkdf

cgirt nfesfjofrgf ug{jf:jlsf/ug{.

w//f @@ lghl lf**g**sf]; DklQ lxgfldgf

kļo\$ /fHo klfn]lghl lfģsf]lgsfodf lgb\{\frac{1}{2}} g ug\{jf sfo\{ug\{ sg\} klg x\{ x\}; otdf /x\{sf\} JolOmn\{ cfly\{ lj Qlo jf Jofkfl/s lqmofsnfkx\{ sf\} l; nl; nfdf lghnf0\{ p; sf\} kblo lj Zjf; sf\} cfwf/df k\{\frac{1}{2}} g \{ ly log\} g \{ ly log\} sg\} klg \{ ly log\} g \{ ly log\} g \{ ly log\} g \{ ly log\} sg\} klg \{ ly log\} g \{ log\} g \{ ly log\} g \{ log\} g \{

wf/f @# cfk/flws cfh**g**sf]z4ls/0f

- != kjos /fHo klfn]cf^gf]dhssfjsfgÿsf cfwf/e't I; 4fCt cg; f/bxfosf sg} sfo{\(\gamma\) dg; fokj \(\sigma\) ul/Pdf ltgnf0\(\{\km\}\)bf/L s; '/
 :yflkt ug\(\cert{cf}\) Zostf cg; f/ lj wflosl / cCo pkfo cj nDag ug\(\sigma\)
- -s_ (i) cf^gf]sg}sfo&f6 pTkGg xg]sfggl sf/jfxlsf]kl/Offdaf6
 aRg, sg};DklQ cfk/flws cfh&g xf]eGg]hfgl hfgl To:tf]
 ;DklQsf] u}sfggl pTklQnf0{nsfpg l5kfpg ;f];DklQsf]
 :j k kl/jt&g ug{jf x:tfCt/Of ug{jf ;Da4 s; // ug&ff
 ; mUg /x\$f]sg}JolQmnf0{; xofJu ug&f
 - (ii) sg}; DklQ cfk/flws cfhg xf]eGg]hfgL hfgL To:tf]; DklQsf] oyfy{ k\$[t, ;f]t, :yfg, cjl:ylt, cf]xf]-bf]xf] jf To:tf]; DklQ; E ; Da4 :jfldTj jf clwsf/ nsfpg] l5kfpg] jf cfs[t kl/j tg ug]sfo{ug}.
- -v_ cf^gf]sfggl k4ltsf cfwf/et cjwf/0ffsf cwlgdf /xl M
 - (i) sg}; DklQ cfk/flws cfhg xf]eGg]s/f; DklQ kfkt ubf\$} cj:yfdf hfGbfhfGb}To:tf]; DklQ kfkt ug{efJ ug{jf To:tf]; DklQsf]k\pfJ ugf
 - (ii) o; wf/faf6 s; // :yflkt ul/Psf]sg}sfo{ug{ To; sf]pBf ψ ug{ ; xof ψ ug{ b?T; fxg lbg' ; lj wf k ψ ofpg / k/fdz{lbg ; xeflutf hgfpg', ; ψ ug{ f f f8o ψ ug{.
- @= o; wf/fsf]k\$/0f ! sf]sfof(j og jf nfu"ug]p2]osf nflul
- -s_ klos /fHo klfn]o; wf/fsf]ks/0f! nfu"ug{l; nl; nfdf:yflkts; /nf0{Jofks lfq; Dd nfu"ug{vf]g\$D
- -u_kjffQm v08 -v_sf]k\psf\ngsf nflu :yflkt s; /leq ljjfbdf /x\sf
 /flo klfx;sf]clwsf/ lf\pqleq / aflx/ ul/Psf s; /x; ; dfj\rac{1}{2}
 x\pyf\sq\tyflk, /flo klfsf]clwsf/ lf\pq aflx/ ul/Psf]s; / :yflkt

s; / tadfg xg; S5 ha of]; Da4 Jojxf/ hxfFePsf]xf]ToxfEf] cf^g}sfgg cGtut kmfhbf/L s; / xG5 / of]wf/f sfof(jog ug]jf nfu"ug[/flo klfsf]cf^g}dhssf]sfgt cftut; fkl dhsdf s; // u/1: $/\bar{x} \, kmf h b f/L s$; $// x \bar{q}$; $Sb5 \bar{l}$

-3_ klos /fllo klfn]of]wf/fnf0{keflj t uglsfggx; / To:tf sfggdf ePsf kl5Nnf sq}klq kl/jtq jf ltqlx; sf]ljj/Ofsf kltx; jeOm

/fi6xa3sf dxf; Irj nf0{kbfg ug5gb

-a_ olb sg}/fHo klfsf]cf^gf]dhssf]sfggsf cfwf/et l; 4fCtx; af6 cfiZos bllvPdf, o; wf/fsf]k\$/0f! df Joj:yf ul/Psf s; //x; ; Da4 s; / ug{JolQmx; sf]xsdf nfu"gxg ; Sg\$g\

wf/f @\$

nsipg]|5kipg]sio{kijo\$ /fHo kIfn] o; dxf; l6wsf]wf/f @# sf]k||tsh gxb]u/l, of]dxf; lGwåf/f:yflkt s; /df; xeful gePsf]eP klg of]dxf; lGwåf/f :yflkt s; /x; af6 q} To:tf]; DklQ kfkt ePsf] eGg] yfxf kfP/ klq To:tf]; DkIQ hfgL hfgL nsfpg] I5kfpg] jf nuftf/ IgoGqOfdf /fVg] sfo(nf0{cfjZostf cg', f/ knf)nbf/L s; / :yflkt ug{ljwflosl / c6o pkfo cinDag ugtkm{lirf/ ugb.

wf/f e% Cofodf cj/fy

kios /fllo klfn]bitosf stystofdg; fokj tul/Pdf ltgnf0{ cfjZostf cg; f/ knflpbf/L s; // :yflkt ug{ljwflosL / cGo pkfo cinDag ug 5 M

-s_o; dxf; lCwaf/f :yflkt s; /sf] sf/j fxlsf] ; DaCwdf eMf ; flfl k/LIfOfnfO{ pTkI/t ug{ jf kdfOf k|ttls/Of sfodf x:tlfk ug{ eflts an koffu ug{wDsfpg; t; fbg' if cglrt nfesf]klt1f ug{

k|tfj ug{jf To:tf]nfe k\(\psi\)fg ug\(\bar{\mathbb{l}}\)

-v_of]dxf; lGwåf/f :yflkt s; "/; E ; DalGwt lj ifodf sfgg sfof(j og ug{clwsf/l jf Gofosdlfi]cf^gf]kblo st{o kfngf ug{f x:tlfk ug{zf/ll/s an k\psifu ug{\text{wDsl lbg' jf t; f\psigo} o; k\psi/0fdf pl\nlvt sg} klg s'fn] /fllo klfnf0{c; lsl; dsf ; fj f\lgs clwsf/lsf]/lffy{sfgg agfpg afwf k/\psif]dflgg]5\psi.

wf/f @^ Sfggl JolOnsf]bfloTj

!= kios /fHo kIfn] cf^gf sfggl I; 4fGtsf] cgsh xg] u/l o; dxf; lGwåf/f :yflkt s; /df sg}sfggl JolOm ; xeful ePdf To; sf] bfloTj lgwfl/t ug]; DaGwdf cfj Zos pkfox; cj nDag ugs.

e= /fHosf sfgÿl I; 4fCtx¿sf] cwlgdf /xl sfgÿl JolQmsfj bfloīj

kminbf/L, bjfgL jf kzf; lgs xg; sg5.

#= o:tf] bflojj kis[ts JolQmi] s; / u/l axg ugkg[kmi] hbf/l

bfloTjnfO{k||tsh k\epsilon k\epsilon fg qkfg qu/l sfod x\epsilon \text{\$\lambda\$} .

\$= kios /fHo kifn] vf; u/l o; wf/f cGtuft bfloIj axg ugkgI sfggl JolQmn]kefjsf/l, cfgkflts / b?I; fxgfidv (dissuasive) ; kdf cflys; hfo nufot kmihbf/l jf u/kmihbf/l cg; f:tl JoxfikgIs/f; lglZrt ugs.

wi/f & ;xeflutf / pBfy

!= klos /fHo klfn] cf^gf] dhssf] sfgt cgtk, of] dxf; l6waf/f :yflkt s; /df sg}klg xl); ot, h:t| dltof/, ; xofll jf ps; fpg] JolQmsf zkdf ; xeful aGg] sfofnf0{ km/hbf/l s; // sfod ug{ cfj Zostf cgt/, f/ lj wflosl / cGo pkfoxz cj nDag ug. .

@ kijos /filo kijfn]cf^gf]dhssf]sfgg cgzk, of]dxf; i@af/f s; //

:yflkt ul/Psf sfo{ug{sq}pBflunf0{kmflnbf/L s; // :yflkt ug{ cfiZostf cq; f/ lj wflosl / cGo pkfox; cj nDag ug{; Sg\bar{5}.

#= klos /fHo klfn]cf^gf]dhssf]sfgg cgzk, of]dxf; lowaf/f s; // :yflkt ul/Psf sfo{ug{tof/L ug{sfohf0{kmhbbf/L s; // :yflkt ug{cfjZostf cg';f/ljwflosl / cGo pkfox; cjnDag ug{ ; Šq**5** .

wf/f @*

s; //sf]tIjsf]; kdf hfgsf/l, cfzo / p2]o

o; dxf; l6wåf/f :yflkt ul/Psf]s; //sf]tTjsf]¿kdf cfjZos kg[hfgsf/l, cfzo / p2]o h:tf s/fx; j:tut tYok/s kl/jzaf6 ux0f ul/q\$.

wf/f @(xbDofb ; DaQul sfggl kljyfg

klos /fllo klfn]pkoOmtf cg; f/ o; dxf; l6wåf/f :yflkt ul/Psf sq}klq s; /sf ; DaGwdf sfqqL sf/jfxL z? ug{cf^qf]dhssf] sfggdf nfdf]xbDofb; DaGwL sfggL Joj:yf: Yffkgf ug{tyf cf/flkt s; /bf/n] Gofo kzf; gnf0{ 5Ng] sfo{ u/sfdJf xbDofb ; DaGwL sfgdJL kfj wfgnf0{nfdf]agfpg]jf xbDofb ; DaGwL sfggL kfj wfgnf0{lgnlDj t ug{Joj:yf:yflkt ug\$.

wf/f #)

cleoffng, CofolgOffgg / cg', f:t!
!= k[o]s /fHo k[fn] of] dxf; |Gwaf/f s; '/ :yflkt ul/Psf] sb} sfo{ ul/Pdf s; //sf] dfgfnf0{ Wbfqdf /fVb} To; sf] cq; f:tlsf] lqlDt lhDd]f/ agfpg\$.

@= klos /fllo klin] cf^gf]sfggl k4lt / ; j=\rightyflqs l; 4f6tx; cq; k cf^gf ; fj hlgs clwsf/lx; af6 pglx; nf0{cf^gf} sfo{Dkfbg ug{ kbfg ul/Psf 56 if Ifaflwsf/hGo lizafflwsf/ / cfiZos eP; Dd

of]dxf; lGwåf/f :yflkt s; /x¿sf]k\epsilonfjsf/l cg\; Gwfg, cleof\ng / GofolgOf\otimeg sfo\nf0\{ ; Dej tNofpg] sfo\{ alr ; Glrt ; Gthg :yflkt ug\{jf sfod /fVg cfjZostf cg\; f/sf pkfox¿ cjnDag ug\otimes.

#= klos /fHo klfn] of] dxf; lGwåf/f :yflkt s; / ug[JolQm lj?4 cleoflhg ug[; DaGwdf cf^gf] dhssf] sfgg cGtu{ :jljj\$lo sfggl clwsf/sf]k\phfil ubf{tl s; /x¿sf; DaGwdf sfgg sfof{j og ug[pkfox¿sf] k\phfisfl/tf clej[4 ug] / o:tf s; /x¿nf0{b?I; flxt ug[cfjZostf k|t; dlrt; Ddfg; lglZrt ug{k\phf; ug[5].

\$= o; dxf; |Cwåf/f s; // :yflkt ul/Psf d2fsf; DaGwdf kijos /fHo klfn] cf^gf] dhssf] sfggsf] / klt/lffsf clwsf/x¿sf]; dlrt; Ddfg ub{ d2fsf]; gj f0{xbf jf kg/fj bg ug\$f nflu ygfaf6 dQm ug{ lg0f6; DaGwl zt{¿sf; DaGwdf lj rf/ ubf{kl5 xg} knfhbf/l sf/j fxlx¿df kltjfbl pkl:yt /xg; Sg]s/f; lglZrt ug{cfj Zos xg]; dlrt pkfox¿ cj nDag ug\$f.

%= klos /fHo klfns; /x; df; hfo kfPsf JolQmx; sf]kj {5&sf/f jf Kof/finsf]; Deflj t 36gf dfly lj rf/ ubf{; Dal6wt s; /sf]dfqfnf0{

Wofgdf /fVg\$.

^= klos /fHo klfn cf^gf] sfggl k4ltsf cfwf/et l; 4fGtx¿sf] cgshtfsf]; ldf; Dd o; dxf; lGwåf/f :yflkt s; /sf]cleoQm /xsf]; fj filgs clwsf/lnf0{; Da4 clVtof/jfnfåf/f x6fplff, lgnDag ubf{ jf kg:yflkt ubf{ pkoQmtf cg', f/ lgbflfftfsf] cgdfg ul/g] l; 4fGtsf]; Ddfg klt Wbfg lbbssfolj lwx¿ :yflkt ug{lj rf/ ugs.

&= kijos /filo klfn] s; /sf] dfqfn] ck]ff u/] cg'zk cf^gf] k4ltsf cfwf/e't l; 4f6txzsf] cgshtfsf ; ldf; Dd of] dxf; l6wåf/f :yflkt s; /'df cbfntsf] cfbz jf c6o pkoQm dfWbdåf/f ; hfo kfPsf JolQmzznf0{ cf^gf] dhssf] sfggn] lgwf[/t u/sf] ; dofj lw; Dd lgDg sfosf] nflu cofi]o 7x/fpg] sfo[j lwxz :yflkt ug{ lj rf/ugs/M

-s_; fj filgs kbdf /lx/xql/

-v_/fHosf]; DkOf{jf cflzs :jfldTj /x\flatsf]k\lti7fgsf]kbdf /lx/xg .

*= o; wf/fsf] ks/0f ! nj lghfdtl sd{ff/lx; lj?4 clwsf/kfkt clwsf/lx;nj cEof; ugj cgzf; gfids sf/jfxldf kltsh kefj kfgba.

(= o; dxf; lGwdf plNnlvt sg} klg s/fn] o; dxf; lGwaf/f Joj:yf
ul/Psf s; //sf] ljj /Of; ti ; DalGwt l; 4fGt / /fHo kIfsf] cf^g}
dhssf]sfggaf6 ; #Ift ug[Jojxf/sf]j Nyflgstf lgolGqt ug[cGo
sfggl l; 4fGtx; nfO{k\epsilon flj t ug[Sg] / o:tf s; //x; df ; f]kl sfgg
adf[nd cleof[ng / b08 ul/q]s.

!)=/fllo klfx;n] of] dxf; lGwåf/f :yflkt s; /df ; hfo kfPsf JolQmx;nf0{; dfhdf kg/Psls/0fsf]k] 4g ug{k\psi; ug\g\}g\

wf/f #! /f¶sf, a/fdbl / hknt

!= klos /fHo klfn]cf^gf]dhssf]sfggl k4ltaf6 clwsflws ¿kdf
; Dej eP; Dd lgDg s/fx¿ hkmt ug{cfjZostf cg'zk blfosf
pkfox¿ cj nDag ugl M

-s_of]dxf; lGwaf/f :yflkt s; /x; af6 pTkIQ ePsf cfk/flws cfhgx;

jf To:tf cfh@x; ;/x dNo /x\f]; DkIQ .

-v_of]dxf; |Cwaf/f :yflkt s; /x¿sf]; |Cbe(df k\phif) ePsf jf k\phif) tkm(

nlift; DklQ,; fwg jf cGo dfWbdx;...

@= kios /fHo kIfn]o; wf/fsf]k\$/0f ! df plNnlvt sg}klg j:tsf]
cGttM hkmtsf]k\psf nflu To:tf]j:tsf]klxrfg, vfhl, /fsf
jf a/fdb h:tf sfo{; Dej agfpg cfjZostf cg; f/sf pkfox;
cjnDag ugb.

#= kios /fHo klfn]o; wf/fsf]k\$/0f! / @ cGtu{ /fsf /flvPsf] a/fdb ul/Psf]jf hkmt ul/Psf]; DklQsf]; Ifd lgsfoåf/f k‡f; g ug{cf^gf]dh\$sf]sfgg adfind cfjZostf cg; f/ ljwflosl / coo pkfox; cj nDag ug. €.

\$= olb o:tf]cfk/flws cfh@ kUf{jf cflzs ¿kdf csf[sg); DklQdf ¿kfCt/Of jf kl/jt@ ul/Psf]eP o; wf/fdf plNnlvt pkfosf]nflu To:tf]cfh@sf]; §f o:tf]¿kfCtl/t jf kl/jlt@; DklQ g}lhDd]f/xd\$.

%= olb To:tf]cfk/flws cfh@ j wflgs ; f[taf6 kfkt ul/Psf]; DklQ; E Id; f0Psf]/x = eg]o; /L]Id; f0Psf]cfh@ dNofl[t dNosf]xb; Dd /fsf /fVg]/ a/fdb ug[clwsf/df kltsh kefj gkg[u/L To:tf]

; DkIQ hkmt ug{; Isq5.

^= To:tf] cfk/flws cfh@af6 kfkt xg cfPsf] cfDbfgL, cfk/flws cfh@sf]; kfGt/0f jf kl/j t@ ul/Psf]; DklQaf6 lgsflnPsf]cfDbfgL jf cGo nfex; o; wf/fdf plNnlvt pkfox; k|t cfk/flws cfh@af5.

h:t}; fkl tl/sf / ; fkl dfqfdf lhDd]f/ xgfbg\

&= o; dxf; l6wsf]o; }wf/f / wf/f %% sf]kφf¶ngsf nflu k¶o\$ /fHo
kIfn]cf^gf cbfntx¿ jf c6o; Ifd lgsfox¿nf0{aŊsË jf ljQlo
jf Jofkfl/s clenŊx¿ pknAw u/fpg jf a/fdb ug{cfb½ hf/L ug{
; Ifd agfpg\$. sg} /fHo kIfn] aŊs ufkglotfsf] cfwf/df o;
k\$/0fsf k¶jwfg c6tu{ sfo{ug{06sf/ ug¶o}}.

*= /filo klfx;n] cf^gf] dhssf] sfgtjsf cfwf/et l; 4f6tx; Pj + Goflos / cGo sf/jfxlx;sf] cgshtfsf]; ldfleq /xl s; /bf/n] cf/flkt cfk/flws cfhtj jf hkmt xt; Sg] cGo; DklQsf] j lyflgs pTklQ af/latfpqkq[s/fsf]; DefJotf af/]lj rf/ uq{; Sqtq\

(= 0; wf/fsf kfjwfgx;sf]JofVof jf:tljs t]f]klfsf clwsf/x;sf]

kltsh xq]u/l ul/qba .

!)=o; wf/fdf pNn]v ul/Psf] sg} klg s/fn] ToxfF plNnlvt Joj:yfx¿sf]JofVof ul/Ff jf nfu"ul/Ff /fHo kIfsf]cf^g}dhssf] sfg\$sf kfj wfgsf]cwlgdf /xl ul/g]l; 4fGtnf0{k\psi fi t ug\psi g}.

wf/f #@ ; flfl, ljz**]**f1 / kU8tsf]; /lff

!= kios /fHo klfn] cf^gf] dhssf] sfgil klffnl cg'zk / cf^gf; fwgsf]; ldfleq /xl of] dxf; lGwåf/f :yflkt s; /sf; DaGwdf askq ugi; flfl / ljzif1 Pj +pkoOmtf cg'; f/ pglx¿sf gftlbf//cGo lgs6:y JolOmx¿nfO{; Deflj t bJo[xf/ jf qf; af6 kefjsf/l; /lff kbfg ug{; dlrt pkfox¿ cj nDag ugi.

@= o; wf/fsf] k\$/0f ! df Joj:yf ul/Psf pkfox; leq cGo s/fsf cltl/Qm k|tjfblsf clwsf/x;sf]k|tsh gxg]u/l, plrt k|qmofsf]

clwsf/ nufot blfosf s/fx; ; dfj 2 xg; Sg5gW

-s_To:tf JolQmx¿sf]ef]ts ; 'Iffsf]nflu cfjZos / ; Dej eP; Dd pglx¿nf0{cGoq kg:yfkt ug{/ pkoQmtf cg'¿k o:tf JolQmx¿sf] uf]otf sfod /fVg]tyf pglx¿sf]klxrfg / cjl:yltsf]vhf; f ug{ ; ldf tf\$g cgdlt lbg]h:tf sfo{j lw :yflkt ug{s/fx¿l)

-v_;flfl / ljz]f1x;n];flfl k/Llf0f lbg]qmddf To:tf JolQmx;sf]; //lff
; lglZrt ug[tl/sfl h:t} lel8of]jf cGo pkoQm;fwg h:tf]
; ~rf/ k||j|wsf]k\pflusf dfWbdaf6 k/Llf0f ug{; lsg]u/L cgblt

kbfg ug{Igodnf0{dfGotf lbg]s/fx;...

#= /fHo klfx¿n]o; wf/fsf]k\$/Of! df pNnlvt JolQmx¿sf]kg:yfkg ug{ljifodf c¿ /fHox¿; E ; Demf}t ug{jf Joj:yf ug{ljrf/ ug{g\

\$= o; wf/fsf kfj wfgx; kll8t JolQm; flfl /x] Dd pglx; sf nflu klg

nfu"xþ\$g∖

%= kījos /fHo kIfn] cf^gf] dhssf] sfggsf cwlgdf /xl s; /bf/
lj?4sf knfnbf/l sf/jfxlsf kījos pkoQm r/Ofx; df klļtjfblsf
clwsf/x; df klļtsh kefj gkg[tl/sfaf6 kll8t JolQmx; sf
b[i6sf]f / ; /fsf/x; nf0{k|tt ug{tyf Wofg lbg ; Ifd agfpg]5 .

wf/f ## ; Irt ug [JolQm; sf]; / Iff

kījo\$ /fHo kIfn]o; dxf; lGwåf/f :yflkt s; "/; E ; DalGwt sg} tYosf ljifodf sg}JolQmn]c; n lgotn]/ ts{ Et cfwf/x¿; lxt; lfd lgsfox; ; dlf sg}; rgf kz u/df lghsf lj?4 sg}cjfl~5t Jojxf/ xgaf6; //Iff kbfg ug{cf^gf]dhssf]sfggl koffnldf; dlrt pkfox; cinDag ug/Joj:vf ug/lirf/ ug/5.

> wf/f #\$ ej6frf/hlo sfo.jt; sf]kl/0ffd

kijos /filo kifn] pglx¿af6 c; n lgotn] kijkt t] f] kifsf] clwsf/sf]; dlrt; Ddfq ub{ cf^qf] dhssf sfqtsf cfwf/ett l; 4fCtx; sf] cgsh xg] u/l, e[6frf/sf kl/0ffdx; nf0{; Daf[wt ug{ pkfox; cjnDag uglj o; kl/k]fdf /fHo klfx;n]sq}s/f/ vf/lh ug[if /2 ug] sb}56 lbg]if cGo To:t}lnvt lkmtf{lng]if cGo sb} pkrf/flds sf/jfxl ug{h:tf sfggl sf/jfxlsf ljifox; df el6frf/nf0{ Pp6f;fGblessf/stTjsf];kdfTjrf/ug{;Sg\$g\

wf/f #%

gff; fglsf]lfltk/t{
kijo\$ /fHo kIfn] cf^gf]dh\$sf]sfg\u00agsf l; 4f\u00aftx\u00aassf]cg\$h xtg]u/l stg}lgsfoxz jf JolQmxzn]ei6frf/hGo sfoff]ki/Offd:jzk sg}gf\$; fgl Joxfgf{k/\$fdf To:tf]gf\$; fgl k\fofpg\f6 IfItkIt{kfkt ug} Isl; dsf] sfggl sf/jfxl z? ug{clwsf/; lqlZrt ug{cfiZostf cg' f/sf pkfox; cinDag ug 5.

wf/f #^ |j|zi6ls**[** |gsfox;

klos /fHo klfn] cf^gf] dhssf] sfggl klffnlsf cfwf/et l; 4f6tx¿ cg½k xg] u/l sfgg sfof6jogsf] dfWodaf6 ei6frf/sf] klt/flv ug&f nflu lj lzi6lst lgsfo jf lgsfox¿ jf JolOmx¿sf] lj Bdfgtf; lglZrt ug\$. o:tf lgsfo jf lgsfox¿ jf JolOmx¿nf0{/fHo klfsf]sfggl k4ltsf cfwf/et l; 4f6tx¿ cg½k, pglx¿n]cf^gf sfo{k\epsilon fj sf/l ¿kdf / cglrt k\epsilon fj lagf; Dk6g ug{ Sg]u/l cfj Zos :j t6qtf k\epsilon fg ul/g\$. o:tf JolOmx¿ jf lgsfo jf lgsfox¿sf sd{f/lnf0{ pglx¿sf] sfo{Dkfbg ug{ ; dlrt tfnld / ; f[x½xykg]\$.

wf/f #& sfgg sfoffjog ug{lgsfox; alrsf]; xoff

!= kijos /filo klfn] o; dxf; lwaf/f :yfikt s; /sf; xeful xg]jf ePsf JolQmx; nf0{ pglx; af6 cg; GwfghGo / kdff0fdhs; hgfx; ; Ifd lgsfox; nf0{ pknAw u/fpg kf]; flxt ug{/ s; /bf/x; nf0{ cfk/flws cfhgaf6 jl~rt u/fpg tyf To:tf] cfhg lkmtf{u/fpg] qmddf; Ifd lgsfox; nf0{ tYok/s Pj+vf; lsi; dsf]; xofil kiofpg ofilbfg klg; Sg]u/l; dlrt pkfox; cjnDag ug. .

@= kijos /fHo klfnjo; dxf; lGwåf/f :yfikt s; /sf; DaGwdf pkoQm
7flgPsf d2fx¿df, cg; Gwfg jf cleofjng qmddf cfwf/e't ; xofju
kbfg ugi cleoQmnf0{; hfodf 56 lbnfpg]; Defjgftkm(lj rf/

ua**Š**

#= klos /fHo klfn] cf^gf] dhssf] sfgtsf cfwf/et l; 4fGtx; cg'; k of] dxf; lGwåf/f :yflkt s; //sf ; DaGwdf, To; sf] cg'; Gwfg jf cleofhgdf cfwf/et; xofu k\u00e4ofpg]JolQmnfO{cleofhgaf6 56 k\u00e4fg ug\u00e4; Defj gftkm(lj rf/ ug\u00e45.

\$= o:tf JolQmx; sf]; //Iff; DaGwL Joj:yf, cfjZos x/km/; lxt o;

dxf; lcwsf]wf/f #@ df pNn\/v eP adf\/lnd x\/d\/b.

%= o; wf/fsf]k\$/0f! df pNn\/ ul/Psf]Psf /fllo kIfdf /x\\$f]s\\\} JolOmn] csf[/fHo klfsf ; Ifd lgsfox; nf0{ cfwf/e't ; xfotf k\fofpq ; Sq\fePdf ; Da4 /fHo kIfx\foepe_ o; \wf/fsf\k\\$/Of @ / # df plint ul/Psf] pkrf/; E ; DalGwt ; DefJo kfj wfgx; csf] /fllo klfåf/f :jlsfg[u/l ;Denf]:f jf cGo kaGwdf kjlz ug{ljrf/ ug{ ; **Sq5q**\

wf/f #*

; filligs lgsfox; nufot cf gf ; filligs clwsf/lx; / csflt/ knijhbf/L s; //sf]cg; Gwfg / cleofjhgsf nflu lhDd]f/ cf^gf lqsfox; alrsf]; xoflunf0{cfjZostf cg\'zk\' kf]; flxt ug\' pkfox\'z cjnDag ug 5 . To:tf; xof leq lg 0g s/f; dfj ½ xg; Sg 5g \\
-s_of] dxf; l6wsf] wf/f !%, @! / @# af6 s; / :yflkt ul/Psf sg}

s; / ePsf] eql ljZjf; ug{; lsg] ts{Et cfwf/x; ePsfdf kl5Nnf lgsfox¿nf0{cf^g}køf; df ; rgf køfg ug{s/f0 jf

-v kl5Nnf lgsfox; nf0{cg/fivsf cfwf/df; a}cfjZos; rgf kbfg uq{s/f.

> wf/f #(/fli6@ lgsfo / lghl lf@ alrsf]; xof@

!= klos /fllo klfn] cf^qf] dhssf] sfqt cq'; k xtq] u/l, o; dxf; |Gwaf/f:yflkts; / uq[sfo@f; mJg /xsf lj ifo; E ; DalGwt s/fdf, cg; Gwfg / cleoffng ug: /fli6@ / lghl Iffnsf Osf0{ن, vf; u/L [j Qlo ; #yfx¿ alrsf] ; xoflunf0{ cfj Zostf cg; k kfl; flxt uq{pkfox; cjnDag uq\$.

@= klos /fHo klfn]of]dxf; lGwåf/f s; // :yflkt ul/Psf sfo{ePsfldf cf^gf gful/sx; / cf^gf] lfqleq a; faf; ub{cfPsf JolQmx; n] tI; DaGwdf cg; Gwfg / cleofhg ug /fli6@ lgsfox; nf0{ To; sf] ; haf lba]sfonfo{kfi]; flxt ua{lj rf/ uab .

wf/f \$)

a**≱sf]uffglotf** k¶o\$ /fHo kIfn]o; dxf; lGwåf/f :yflkt s; /x¿sf]l; nl; nfdf cf^qf]dhsdf kmfhbf/L cq; Gwfgsf]; Gbe@ff, assf]ufkglotf; DaGwL sfggx;sf] sfof(jogsf] qmddf pTkGq xq ; Sq] afwf Jojwfqx;nf0{ x6fpg cf^gf] dhssf] sfggl k@ffnlleg ; dlrt ; eGgsf] pknAwtf ; lglZrt ug\$.

> wf/f \$! kmabf/l clenv

kios /fHo kIfn] pkoQm p2io / zt&f cwlgdf /xl] csf[sg} /fllodf cf/flkt s; /bf/nf0{klxn]g}; hfo ul/Psf]s/fsf]; hgf o; dxf; |Gwåf/f:yflkts; /x;; |E|; DalGwt kmf|nbf/Lsf/jfxLsfl; nl; nfdf lirf/ ug{cfiZostf cg/f/ liwflost if cGo pkfox; cinDag ug{ ; Sg**5** .

wf/f \$@ clwsf/ Ifg

- != ktos /fHo klfn] o; dxf; lGwåf/f -: yflkt s; /xزsf ; DaGwdf bixfosf cj:yfdf clwsf/ Ifiq :yflkt ug{cfjZostf cg;f/sf pkfox; cinDag ug 5M
- -s_; f]/fllo klfsf]lfqleq To:tf]s; / ul/Psfdfl
- -v_To:tf]s; // ubf\{ cj:yfdf ; f]/fHo kIfsf]Wj hfjfxs hxfhleq jf ; f]/fllosf]sfgtj cGtut btf{ePsf]xjf0hxfhleq s; // u/tlf .
- @= o; dxf; lGwsf]wf/f \$ sf]cwlqdf /xl sq}/fHo kIfn]bxfosf sq}

- s; 'sf; DaGwdf klg clwsf/ If'q sfod ug $\{; Sg<math>$ 5 M
- -s_; DalGwt /fHo kIfsf]gful/s lj?4 s; // ul/Pdfljjf
- -v_; DalGwt /fHo kIfsf]gful/såf/f jf ; f]/fHo kIfsf]Ifqleq a; faf; ub{cfPsf]/fHoljxlg JolQmn]s; / u/qlfl jf
- -u_;f]s; // o; dxf; l6wsf] wf/f @# sf] k\$/0f! -v_ (ii) cGtu{
 :yflkt s; // ePsf]/ o; dxf; l6wsf] wf/f @# sf] k\$/0f! -s_ -i_ jf
 -ii_ jf -v_ -i_ cGtu{ :yflkt s; // cf^gf] lfqleq ug{p2}/on]cf^gf]
 lfq aflx/ /xL u/dfl)
- -3_/fHo kIfs}lj?4df s; / ul/Psfdf.
- #= o; dxf; l6wsf]wf/f \$\$ sf]k\pflingsf nflu, k\line /fllo kIfn]o; dxf; l6w\u00e4ff :yflkt s; //sf]sg}cf/flkt s; //bf/ cf^gf]If\u00e4leq /x\u00e4ff]/ To:tf]JolQm cf^gf]gful/s ePsf]e6g]dfq cfwf/df lghnf0{ ; kb\u00e4le gul/Psf]cj:yfdf To:tf]s; //df clwsf/ If\u00e4 :yflkt ug{ cfj Zostf cg\u00e4ffsf pkfox\u00e4, cj nDag ug\u00e4 .
- \$= kjos /fHo kjfn]o; dxf; lowaf/f :yflkt s; /sf; DaGwdf cf/fjkt s; /bf/ cf^gf] lfgleq /xsf]/ lghnf0{; kbul gul/Psfdf cf^gf] lfgflwsf/ :yflkt ug{ cfj Zostf cg; f/sf pkfo cj nDag ug{ ; Sq5.
- %= olb sg}/fHo kIfnfO{o; wf/fsf]k\$/0f ! / @ sf]clwsf/ Ifqsf]
 k\phifu ug[qmddf csf[sg}/fHo kIfn];fkl Jojxf/sf; DaGwdf
 cg;Gwfg, cleoflhg jf Goflos sf/jfxl ul//x\sf]eGg]s/fsf]; \mathbb{cg}
 k\pikt ePdf jf cGo sg}tl/sfaf6 hfgsf/l xg cfPdf, tl /fHosf
 ; Ifd lgsfox¿n] pkoOmtf cg½k cf^gf sfdx¿df; dGjo ug[p2]fon]Pscsf{alr k/fdz{ug\sqs}}
- ^= cGt/{li6@ sfg\u00etsf ; fdfGo df\u00etb08sf]ljk/lt gx\u00et]u/l, /fHo kIfn] :yflkt u/\u00etsf]k\u00etf\u00etb1f\u00etsf]k\u00etf\u00

kl/R5**§**- rf/ cGt/**{**i6**c** ; xof**y** *wf/f \$#*

cst/fiba; xoff

!= /fHo kIfx;n] km[hbf/L ljifodf o; dxf; lGwsf] wf/f \$\$ b]\v %)
adf]\undamad ; xof\undama ug\undamag\ pko\undama eP; \undamad / cf^gf] dh\undamasf sfg\undamsf]
cgs\undama /x] \undamad, /fHo kIfx;n] e\undamafr/; \undama ; \undamad \undama

@= cGt/fli6@; xofusf lj ifox¿df bfkf]f]ck/flwstfnf0{jf~5glo 7flgPsf]cj:yfdf, olb; xofusf]ck]ff ul/Psf]s; ½; E; DalGwt Joj xf/ bj }/fllo kIfsf sfggx¿ cGtu{ kmfhbf/L s; ½ dflgPsf]5 eg]cg½fu ul/Psf]/fllo kIfsf]sfggn]; dfg txsf]s; ½df /fv]jf g/fv\sf]jf cg½fustf{/fllosf]sfggdf s; ½nf0{pxl zAbfj nlaf6 gfdfl[t ul/P jf gul/Psf]h] s}eP klg To:tf zt{¿ k½f ePsf] dflqq\sq.\

wf/f \$\$;kb**Q**l

!= of]wf/f o; dxf; lGwåf/f :yflkt s; /x¿sf; DaGwdf; kb@lsf]nflu cg/fW ul/Psf]JolQm cg/fW ul/Psf]/fHoleq /x\st]cj:yfdf nfu" x\gtartut{5}. t/; kb@lsf]nflu cg/fW ul/Psf]s; // cg/fWstf{/ cg/fW ul/Psf bj} /fHosf cf-cf^gf] dhssf sfg\gtartut{6} cGtu\tautet b08glo x\gtartut{8}.

@= o; wf/fsf]k\$/0f! sf kfj wfgx; df hg; \$}s/f nJvPsf]eP tfklg sg}/fllo klfn]p; sf]sfggn]cgblt lbPdf cf^gf]dh\$sf]sfggn] b08glo gePsf]eP klg of]dxf; l6waf6 Joj:yf ul/Psf s; //x; ti

; DalGwt JolQmnf0{; kb@l ug{; Sg\$.

#= ; kb@lsf] nflu cg/fW ul/Psf] lj ifoleq w]} leGg leGg s; /x; ; dfj½ ePsf] cj:yfdf sDtldf Pp6f s; / o; wf/f cGtu{c; kb@lofDo ePdf / tl dWo]sg}s; / ; hfosf] cj lwsf lx; fan]; kb@lofDo gePdf klg o; dxf; lGwåf/f :yflkt s; /; E ; DalGwt ePdf cg/fW ul/Psf]/fHon] tl s; /x; sf ; DaGwdf klg of] wf/f nfu"ug{; Sq5.

%= olb sty}/filo kIfn]; kb@lnf0{; l6wsf]cfwf/df dfq ug{; lsg]u/L
; zt{ agfPsfdf To:tf]; kb@l ; Denf}f gePsf] csf[sty} /filo
kIfaf6 ; kb@lsf]cg/fdw kfkt u/df, To:tf]/filon]of]wf/f nfu"xty]
s; //sf ; DaGwdf o; }dxf; l6wnf0{; kb@lsf]sfgtl cfwf/sf]¿kdf

Ij rf/ ug{; Sg\$.

^= sg} /fHo klfn]; kbulnf0{; lGwsf] cfwf/df dfq ug[u/L ; zt{

agfPdf bxfo adfInd ug 5 M

-v_olb sg}/fHo kIfn]o; dxf; l@wnf0{; kb@l; Da@wl; xof@usf]sfg@lcfwf/sf] ¿kdf ux0f gug[ePdf, of] wf/f nfu" ug&f nflu of] dxf; l@wsf] csf[/fHo kIf; E pko@mtf cg; f/; kb@l; l@w ug[

k∮f; ug∯ .

&= ; kb(ul ; lGw xgkg[zt{g/fVg]/fHo klfx;n] of] wf/f nfu" xg]
s; %x;nf0{Pscfk; df ; kb(ulof() o s; %sf]; kdf dfGotf lbg\{ bg\}

*= ; kb(ul cg/f)v ul/g]/fHosf]cf^g}sfgty jf nfu"xty]; kb(ul ; l6wsf zt{¿sf cwlg:y xg} h; df, c6o s/fsf cltl/Qm; kb@l ug{ Godtd ; hfo cfiZos kg{zt{/; kb@l ug{OGsf/ ug{; Sg] cfwf/x;; dfj ½ xg5g\

(= /fllo klfx;n] cf^gf]dhssf]sfggsf cwlgdf /xl, of]wf/f nfu"xg] sq}klg s; /sf ; DaGwdf ; kbúl ; DaGwl sfolj lw lj sl; t ug{/ ; f]

; DaGwdf kdf0f; DaGwL Joj:yf; /nLstug{k\u00fbf; ug\u00e4g\u00bb !)=cg/f\u00e4v ul/Psf]/fllo klfn\u00e4 cf^gf] dhssf] sfg\u00e4 / cf^gf; kb\u00e4l ; IGwx; sf] cwlqdf /xl cg/fivstf{/fHosf] cg/fivdf tyf ; Da4 kl/l:yltsf] clgi fotf / ckl/xfotfaf6 ; Gt16 ePdf, ; kb@lsf1 lgldQ ck]ff ul/Psf] JolQm cf^gf] Ifqleq /x\$f] eP lghnf0{ lx/f; tdf lng]jf lghnf0{; kbúlsfjsf/jfxldf pkl:yt u/fpa c6o

; dlrt pkfox¿ cjnDag ug{; Sg\$.

!!=sq}/fHo klfsf]lfqleq sq}cf/f]kt s; /bf/ kmhf k/qlf / To:tf] JoiOm cf^g} bzsf] gful/s ePsf] eGg] Ps dfg cfwf/df To:tf] JolQmf0{; kb@l gug{ePdf, ; kb@l vflh/x\$f]/fHo kIfsf]cg/flvdf, To:tf]JolQm Ij?4 cleofhq uq\$f nflu To:tf]d2f tTsfn ; Ifd lgsfo ; dlf kt ug{ To:tf] /fHo klfsf] bfloTi xq\$. To:tf lgsfox; n] cf^g} /fli6@ sfgt cGtutsf] cGo uDel/ ksftsf] s; /sf] d2f; /x dfgL lg0f6 ug / sf/jfxL cufl8 a9fpg5g\ ; Da4 /fHo klfx; n] cleofhqsf] kefj sfl/tfnf0{ ; lqlZrt uq{ vf; u/L sfoli lwut / kdf0f; DaCwL klfx; df Pscsfhf0{; xofu uq5q\

!@=sbflrt sq}/fHo kIfn]cf^qf]qful/snf0{; kb�l jf z/0fsf]ck]ff ul/Psf]; bj f0{ jf sf/jfxlsf] kl/0ffd:j;k ul/Psf]; hfo eflqsf IgIDt To:tf] JoiQmnfO{cf^a} dhsdf \[\text{kmtf} \text{k7fpgkq} \] zt{cg'; k ; kbûl jf clo tl/sfn]z/Offut ug{; Sg]J/L cf^gf]dhssf]sfggn] cadit kbfq u/sfdf / To:tf] /fHo klf tyf To:tf] JolQmsf] ; $kb(lsf]ck]fful//xsf]/fHo kIf; f]ljsNk / cz; dlrt blvPsfzt(lf; xdt ePdf o:tf]; zt{; kb(ll jf z/0f klg o; wf/fsf]}$ k\$/0f!! df Jojl:yt bfloTj lgjf{sf nflu kof{t xq}.

!#= olb ; hfo sfof(j og ug[p2]/osf nflu ; kb(l dfu ul/Psf)lf To; /l dfu ul/Psf] JolOm cg/fiv ul/g]/fllosf]gful/s ePsf sf/Of O(sf/ul/Psf] 5 eg] cg/fiv ul/Psf]/fllo klfn] cf^gf] dhssf] sfggn] cgllt lbPdf / To:tf] sfggsf cfj Zos zt&f cgsh xg] u/l, cg/fivstf{/fllosf]cfukdf ; f]/fllosf]cf^gf] sfgg cGtu{ lbOPsf] ; hfo jf To; sf]af&l cz sfof(j og ug{|j rf/ug|}.

!\$=s\u00e4} JolQmsf; DaGwdf of] wf/f nfu"x\u00e4] s; /sf; Gbedf sf/j fxl rln/x\u00e4fdf To:tf]sf/j fxlsf k\u00e4o\u00e4 r/0fx\u00e4df; f]JolQmnf0{lgh h\u00e4 /fHo kIfsf]If\u00e4leq 5 To; dhssf]sfg\u00e4af6 k\u00e4Q; a\u00e4clwsf/x\u00e4

klofeltx; nufot GofokUf{pkrf/sf]klofelt ul/glb.

!%=o; dxf; lwsf sg}klg s/fsf]JofVof ubf{sg}JolQmf0{lghsf]InË,
hflt, wd{ /fli6@tf, hftlo pTklQ jf /fhgllts ljrf/sf cfwf/df
cleoflhg jf ; hfo ug[k\psiflhgsf] nflu cg/fl\psi ul/Psf] xf] egl
cg/fl\psi ul/g] /flo kIfn] lj Zjf; ug{Sg]; f/e't cfwf/ ePdf jf
cg/fl\psi]kfngf ubf{pl\nlvt d\lb]sg}cfwf/df lghsf k\taklt k\f\f\taklt
a\laggeg]cj:yf ePdf ; kb\langle ug[kg]bfloTj /x\sprigesf]egl JofVof ul/g\f\rangle \frac{1}{2}\rangle \frac

!^=/fHo kIfx¿n]; DalGwt s; "df lj Qlo lj ifox¿ klg ; dfj‡ ePsf] eGg]Pp6}cfwf/df dfq ; kb@lsf]cg"ff\nf0{0Gsf/ ug{ Sg]5\gq\

!&=; kbul ug{0Gsf/ ugkj {cg/fy ul/g]/fHo klfn]cg/fystf{/fHo klfnf0{pkoQmeP; Dd cf^gf]/fo k|tt ug{kof(t df\sf k\shfg ug{/ cf/f\shrt{k}; \vec{u} ; DalGwt ; \text{"gf pknAw u/fpg cg/fystf{/fHo; \vec{u} k/fdz{ ug\shrt{s}}.

!*=/fHo kIfx;n]; kb@l sfof@jt ug{jf To; sf]k\efjsfl/tf clej [4 ug\sf nflu l\u00e4kIflo jf axkIflo ; Denf}t jf k\u00e4\w00e4w ug\square k\u00f4\text{Tg ug}\u00e5g\

wf/f \$% ; hlo kiPsf JolQnsf]x:tiGt/0f

/fllo klfx;n]o; dxf;lGwåf/f :yflkt s; /sf ; DaGwdf ; hfo kfPsf JolQmx;nf0{sb} ug{jf pglx;nf0{c6o k\$f/sf]:jt6qtfaf6 jl~rt u/L tt\yfgd}; hfo`k/f ug{Sg]Joj:yf ug{To:tf JolQmf0{ cf^g}lfqdf x:tfGt/Of ug{låklflo if axklflo ;Demftf if kaGw ug{ lirf/ug{; Sq\sq\

wf/f \$^ kf/:kl/s sfggl ; xfotf

!= /fllo klfx;n]o; dxf; lGwdf Joj:yf ul/Psf s; /x;; E ; DalGwt cg; Gwfg, cleofhg / Goflos sf/jfxldf oyf; Dej pbf/ ; kdf Pscfk; df kf/:kl/s sfgål; xfotf kbfg ugbg\

@= cg/fivstf{ /fHodf dxf; lGwsf] wf/f @^ adfind sfggL JolQmnf0{ p0/bfol agfpg ; Sg] u/L To:tf] s; //sf] cg; Gwfg, cleoflyg / Goflos sf/jfxldf cg/fN ul/g]/fHosf ; Da4 sfgg, ; IGw, ; Denftf / kaGw cGtuft ; Dej eP; Dd Jofks ; kdf kf/:kl/s sfgdl ; xfotf kbfg ul/g\$.

#= o; wf/f adfind kf/:kl/s sfqqL; xfotf kbfq ubf{bxfosf sq}

p27osf nflu ug{; lsg5 №

-s_JolQmx; af6 kdf0f if aofg Ingsf nflui

- -v Goflos Invtx; tfdh u/fpgsf nflul -u_vfgtnf; l, a/fdbl / /f\$sf /fVg]sfo{sfofKj t ug\$f nflul
- -3_j:t'/:yfgsf]hfFsf nflul
- ; Da4 Invt / clenivsf dh jf kdfloft kiit kbfg ug\$f nflui
- -5_ cfk/flws cfh(), ; DklQ, c(o dfNbdx) jf k ϕ f0fh(o p2)osf nflu coo Irh j:tx/sf]klxrfq ug{jf kQf nufpg]sfo{ug\$f nflul
- -h_cg/fivstf{ /fHodf JolQmx;sf] :jlR5s pkl:yltnf0{ ; ljwfhgs

agfpgsf nflul

-em_cg/ffv ul/g]/fHosf]cf^gf]dhssf]sfg\u00e4sf]k|\u00e4tsh gx\u00e4]c6o s\u00e4\u00e4 kla ; xoflust nflul

-` o; dxf; l(wsf] kl/R51) kfFsf kfj wfg adf1hd cfk/flws cfhqsf]

klxrfg, /f\$sf / kQf nufpg]sfo{ug\$f nfluil

-6 o; dxf; l6wsf] kl/R5b- kfFsf kfli wfg adflhd; DklQ lkmtf\$f nflu .

\$= /fHo kIfsf ; Ifd lgsfox;n]cf^gf]dhssf]sfg\u00e4sf]k\u00e4tsh gx\u00e4] u/L, kj { cg/fj aj / g} klg csf /flo klfsf ; lfd lgsfonf { km/hbf/L ljifo; @; DalGwt To:tf; Fgfx;, hq; Fgfn]5fgljq jf kmfhbf/L sf/jfxLnf0{cl3 a9fpq jf;kmtfkjs;DkGq uq\$f nflu ; xoflukliofpg; S5 jfo; dxf; ICw adflhd kl5Nnf]/fHoaf/f tof/ ul/Psf]cg/ffvsf]¿k Ing ; \$5 eGg]ljZjf; ePdf, To:tf ; raf

 $k \mid f / uq\{; Sq \overline{5}q \setminus$

% o; wf/fsf]k\$/0f \$ adf1\textbf d ; \text{ hgf k} f/ ubf{; \text{hgf kbfos /fHosf}} ; Ifd lgsfox; ; dlf rln/x\sf]\deltafgljg / kmp\bf/L sf/jfxlx; nf0{ kltsh kefi gkfq[u/L ul/g]5.; rgf kfkt ug[; lfd lgsfox;n] kjf@m; rgf c:yfol ¿kdf; dt uf¶o /fVg]jf o; sf]k\pf@df aGb[h nufpq]cg/fl/sf]kfngf ugfg\ tyflk, o; n]; rgf kf/tstf{/fllo klfnf0{cf/flkt JolQmnf0{cf~gf]sf/jfxlsf]qmddf lg/k/fw 3fljft ug{|s|; dsf; raf; fi hlgs ug{/fs nufpg5g.o:tf]ci:yfdf, ; rgf kfkt ug{/fHo klfn]; rgfbftf /fHo klfnf0{To:tf]; rgf fjtigs ugtf; | rt ugt / To:tf]cg/fiv ePdf; rgfbftf/filo klf; E k/fdz{ ug\$. sq} ckifb :j_k kj{; rgf lbg ; Dej gePdf, ; rgf kfkt ug{/fllo klfn]; rgf kbfos /fllo klfnf0{lagf sq}|9nf0{; rgf; fj hlas u/sf]s/f hfasf/L u/fpas.

^= o; wf/fsf kfj wfgx; njkf/:kl/s sfgtl; xfotf; DaGwL lj Bdfg jf kl5 nfu"xqjcGo sq}laklflo if axkIflo ; Gwnf0{kOf{if cflzs

¿kdf kefj kfg\$gg\

&= ; Da4 /fHo kIfx; sq}kf/:kI/s sfqqL ; xfotf ; DaGwL ; IGwaf6

afWosf/L gePsf] cj:yfdf o; wf/f cGtut ul/Psf cg/flysf; DaGwdf o; wf/fsf k\$/0f (blly @(; Ddsf Joj:yfx¿ nfu" xg\$g\ tl /fHo kIfx¿ To:tf] sg}; lGwaf6 afFwPsf] cj:yf ePdf To:tf]; lGwsf; dfgfGt/ kflj wfgsf; \S fdf o; wf/fsf k\$/0f (blly @(; Ddsf Joj:yfx¿ nfu" ug{ /fHox¿ ; xdt geP; Dd Itg}-; lGwsf_ kflj wfgx¿ nfu"xg\$g\ /fHo kIfx¿nf0{; xoflu kbfg ugI cj:yfdf tl kflj wfgx¿ nfu"ug{hf\$bf/ \gt kdf kfl]; flxt ul/G5.

*= /fHo klfx;n]as uffotfsf]cfwf/df o; wf/f adffhdsf]kf/:kl/s

sfggl; xfotf kbfg ug{0Gsf/ ug{5gg\

(= -s_ cg/fiv ul/Psf] /filo klfn] bfxfif] cfk/flwstfsf] cefj /x\$f]
cj:yfdf o; wf/f adfind ; xofivsf] nflu ul/Psf] cg/fivsf]
kloQ/df o; dxf; l6wsf] wf/f ! df j l0ff p21/ox; nf0{ Wbfgdf
/fVq5.

-v_/fHo klfx;n]bffffffffffffwstfsf]cefj /x\$f]eGg]cfwf/df o;
wf/f adffnd ; xfotf kbfg ug{0Gsf/ ug{; Sg\$g\ tyflk, cg/ffy
ul/Psf] /fHon] cf^gf] sfgbl k4ltsf cfwf/et cjwf/0ffx;sf]
cgsh sb] u/l bafjdhs sfo{; dfj½ gxb] u/l ; xfotf kbfg
ug\$\(\) sb}cg/ffydf clt ; fdfGo k\$[tsf]lj ifo ; dfj½ ePsf]j f of]
dxf; lGwsf cGo kfjwfg cGtu{ g}ckffft ; xoffy jf ; xfotf kfkt
xb]ePdf o:tf]; xfotf ug{0Gsf/ ug{; lsg\$}\(\).

-u_ klos /fHo klfn]bfkf]f]cfk/flwstfsf]cefj /xsf]cj:yfdf klg o;
wf/f adflhdsf]; xfotfnf0{lj:tlt:jk klpfg ug{; lfd agfpg
cfj Zostf cgksf pkfox; cj nDag uglkm[lj rf/ ug{; Sgb.

!)=sg}JolQm Ps /fHo kIfsf]Ifqleq ygfdf /xsf]jf; hfo eflu/xsf]
cj:yfdf To:tf] JolQmnfO{ o; dxf; lGwåf/f s; // sfod ul/Psf
ljifodf cg; Gwfg jf cleoflhg jf Goflos sf/jfxLsf l; nl; nfdf
klxrfg, ; fIfL k/LIfOf jf kdfOf kfKt ug{; DaGwdf jf cGo; xfotf
klyfg ug{p2}csf nflu csf{/fHo kIf; dIf pkl:yt u/fpg cg/fly
ul/Psfdf, b}fosf cj:yfx; k/f ePsf] eP To:tf] JolQmnfO{
x:tfCt/Of ug{; lsg} M

- -s_To:tf]JolQmn]:j tGqtfkj & hfgsf/LoQm; xdlt lbPdfl
- -v_bj}/fHo kIfsf; Ifd lgsfox; cfkhk;n]; dlrt; Demsf zt{;sf]
 cwlgdf/xl; xdt ePdf.
- !!= o; wf/fsf]k\$/0f !) sf]k\phif\ngsf nflu M
- -s_hg /fHo klf; dlf JolQm x:tfGt/0f ePsf] xf]; f] /fHonf0{ hg /fHoaf6 To:tf] JolQm x:tfGt/0f ul/Psf] xf]; f] /fHo klfn] cGoyf cg/fW u/df jf clVtof/L lbPdf afx\$ To:tf] JolQmnf0{ lx/f; tdf /fVg]clVtof/L jf bfloTj xdb.
- -v_hg'/flo klf; dlf To:tf]JolQm x:tfGt/Of ePsf]xf]; f]/flon] hg /flo klfaf6 To:tf]JolQm x:tfGt/Of ul/Psf]xf]; f]/flosf]lx/f; tdf To:tf]JolQmnfO{bj}/flo klfsf; lfd lgsfox; af6 tTsfn jf cGoyf ; xdlt eP adf]nd lagf sg}l9nfO lkmtf{k7fpgkg{bfloTj lgjfk ug\$.
- -u_ hg /fHo kIfaf6 To:tf]JolQmnf0{x:tfGt/0f ul/Psf]xf];f]/fHon]
 To:tf] JolQmnf0{ x:tfGt/0f ul/Psf] /fHoaf6 kmsfpgsf nflu
 ; kb@lsf]sf/jfxlsf]kf/De ug{cfjZos xg\$g}.
- -3_ Pp6f /fHo klfaf6 csf[/fHo klfdf x:tfGt/0f e0{To:tf]JolQmn] lx/f; tdf a; \$fdf lghn] x:tfGt/0f ug[/fHodf; hfo eflu]; /x
 - To:tf]lx/f; tdf a; \$f]cjlwsf]; hfodf 56 kfpg\$.
- !@= hg /fHo kIfaf6 To:tf]JolQm o; wf/fsf]k\$/0f!) / !! adfInd
 x:tf6t/0f ul/Psf]xf]; f]/fHo; xdt geP; Dd, To:tf]JolQm hg; \$}
 /fli6@tfsf]eP klg, lghnf0{hg /fHoaf6 x:tf6t/0f ul/Psf]xf]; f]
 /fHoaf6 k|yfg ugkj {hg /fHodf To:tf]JolQmnf0{x:tf6t/0f ul/Psf]
 xf]; f]/fHodf sg}sfo{u/\$f]gu/\$fdf cleofhg ul/g] ylgg] bl08t
 ul/g]jf lghsf]sg}klg j \$lQms :j t6qtfdf a6bh nuf0g]5};
- !#= kios /fHo klfn]kf/:kl/s sfggl ; xfotf ; DaGwL cg/filvx; uxfotf
 ugi/ tl cg/filvnf0{sfoflGit ugijf sfoflGiog ugi; Ifd lgsfodf
 k7fpg]pQ/bfloTj / clwsf/ ePsf]Pp6f silbilo lgsfosf]Joj:yf
 ugis . sg}/fHo kIfsf]kf/:kl/s sfggl ; xfotf ; DaGwL kijs k4lt
 /xsf]sg}vf; kbiz jf Ifa ePdf To:tf]/fHon]To:tf]kbiz jf Ifasf

nflu; fil sfo{ug{vf; s[b|o lgsfosf]Joj:yf ug{; Sg\$. s[b|o lgsfox¿n]kfkt cg/fivsf]bt /; dlrt sfof(j og Pj +cfbfg-kbfg sfof(i){ ; lglZrt ug\$g\ s[b|o lgsfon] kfkt cg/fivsf]cft sfof(j ogsf] lglDt; lfd lgsfodf k7fPsfilf To; n] To:tf]; lfd lgsfonf(0{; f]cg/fivsf]bt /; dlrt sfof(j ogsf] nflu kf]; flxt ug\$. o; dxf; lcwsf]cgdfibg, :jls[t jf; xdlt jf; lDdngsf] lnvt bflvnf ug{ ; dodf klo} /fHo klfn]; eQm /fi6xa\sfdx; lrjnf(0{ o; p2}osf nflu Joj:yf ul/Psf] s[b|o lgsfosf af/dlf; lrt ug\$. kf/:kl/s sfgbl; xfotf /; f] ljifosf cGo; rgf; DaGwl cg/fiv k7fpbf /fHo klfx¿n] Joj:yf u/\$f s[b|o lgsfodf k7f0g\$. /fHo klfsf] clwsf/df kltsh kefj gkg{u/l o:tf cg/fiv /; rgfx¿ sbglts dfWod dfkmt; Daffwt xb / cTofjZos cj:yfx¿df /fHo klfx¿ d~h/ u/dlf oyf; Dej cGt/fi[6& kmfhbf/l kk/l; E7q dfkmt klift ug{Joj:yf xb\$.

!\$=cg/filvx; Inlvt ¿kdf jf; Dej eP; Dd Inlvt clenly tof/ ug{
 ; Sg]dfilodsf]k\(\phi\line\) ff cg/filv ul/g]/filo kIfnf0{dfio xg]efiffdf
 ul/g\(\bar{b}\), ; fy} Io:tf] /filon] cflwsfl/stf :yflkt ug{; Sg] cj:yf
 cg'zk ul/g\(\bar{b}\). o; dxf; l\(\wsf\) cgdf\(\bar{b}\)g, :jls\(\text{t}\) jf ; xdlt jf
 ; l\(\text{Ddngsf}\) Invt bflvnf ug\(\text{j}\); dodf k\(\text{los}\)s /filo kIfn]; \(\text{eQm}\)
 /fi6\(\pi^2\)Ssf dxf; Irj nf0{cfk\(\text{hnf0}\){:jlsfo{xg}efiff jf efiffx; af/]
 ; l\(\text{rt ug\(\bar{b}\)}\). ckl/xfo{ cj:yf / /filo kIfx;n]; xdlt hgfPsf]
 l:yltdf cg/filvx; df\(\text{lvs}\) is kdf klg ug\(\text{; lsg\(\bar{b}\)}\), t/ oyf; So l56f]
 To; nf0{Inlvt ; kaf6 kli6 ul/g\(\bar{b}\)}\).

!%= kf/:kl/s sfggl; xfotf; DaGwl cg/fivdf bixfosf s/f xgj5g\W

-s_cg/filv ug[lgsfosf]klxrfg xg]s/filv

-v_cg; Gwfg, cleoflng jf Goflos sf/jfxL ul//xsf]lgsfosf]gfd
/ To; sf sfost; tyf cg/fly; ti ; DalGwt cg; Gwfg, cleoflng
jf Goflos sf/jfxLsf]ljifoj:t'/To; sf]ks[tl]

-u_Goflos Invtx; tfdjh ug i p2 i ; DalGwt cg/fjlvx;

afx\$sf lj ifodf ; Da4 tYox; sf]; f/fæl

-3_ ck]ff ul/Psf]; xofiJusf]:j \(\) k / cg/fiJustf{/filon]kfngf ug[kg]
7fg\$f]s\(\) y \(\); sfo[i lwsf]lj i /0fi\(\)

-a_ ; Dej eP; Dd ; Da4 JolQmsfjklxrfg, cjl:ylt / /fli6@tfÙ/

-r kdf0f, ; rgf / sf/jfxlsf]ck]ff ugsf]p21/o.

!^= cg/fiv ul/g]/fHo klfn]To:tf]cg/fiv sfoffGjt ug{; Sg]ePdf jf cf^gf]dhssf]sfgg cg'zk To:tf]cg/fiv sfoffGjt ug{cfjZos kg[7fgdf yk; rgfsf]nflu cfuk ug{; Sq\$.

!&=sg\cg/fWsf]sfof(j og ubf\cg/fW ul/g]/fHo klfsf]cf^g\dhssf]
sfg\gcg\;f/ / cg/fW ul/g] /fHo klfs\sfg\gsf] k|tsh gxg]
xb; Dd / ; Dej eP; Dd cg/fWdf pl\nlvt sfo(j lw adf|\nd

sfof(Gjt ul/g)5.

!*=cf^gf]dhssf]sfggsf cfwf/e't I; 4fGt; @ cgsh xg]tyf ; Dej
eP; Dd sg}JolQm Pp6f /fHo kIfsf]Ifgleq /xsf]/ To:tf]JolQmnf0{
csf[/fHo kIfsf]Goflos lgsfoåf/f ; fIfl jf lj z]f1sf ¿kdf ; gj f0{
ugkg[ePdf, klxnf]/fHo kIfn]csf[/fHo kIfsf]cg/fjvdf, ; DalGwt
JolQm cg/fjvstf{/fHosf]Ifgdf jolQms ¿kdf pkl:yt xg ; Dej
gePdf jf OR5s gePdf, To:tf] JolQmsf] ; gj f0{ bloo ; Ddjng
(video conference) af6 ; DkGg ug{ cgdlt lbg ; Sgb . /fHo
kIfx¿ cg/fjvstf{/fHo kIfsf]Goflos lgsfoaf6 ; gj f0{sf]; ~rfng
ug{/ cg/fjv ul/g]/fHosf]Goflos lgsfosf tkmaf6 pkl:yt /xl
To:tf]; gj f0{ug{; xdt xg ; Sgbg\

!(=cg/fystf{/fHo kIfn] cg/fy ul/Psf]/fHo kIfsf]kj {; xdlt lagf, cg/fydf pNn}v eP eGbf afx\$sf cg; Gwfg, cleof]ng jf Goflos sfo[fxlsf nflu, Io:tf]cg/fy ul/Psf]/fHo kIfåf/f pknAw u/f0Psf; "rgf jf kdfOf k|f/ ug[jf kdfOj ug[5gg\ o; k\$/Ofdf pNn]v ePsf sb}klg s/fn] cg/fystf{/fHo kIfnfO{cf^gf]sf/jfxlsf]l; nl; nfdf sb}cleoQmnfO{lg/k/fw 3f]ift ug[lsl; dsf; "rgf jf kdfOf, vh:t ug{f6 /f\$g\$\$. kl5Nnf]cj:yfdf, cg/fystf{/fHon]vh:t ug{cufl8 cg/fy ul/g]/fHo kIfnfO{; lrt ug\$ / Io; /l cg/fy ul/Psfdf cg/fy ul/g]/fHo kIf; E k/fdz{ug\$. olb, sb}

ckjfbfids cj:yfdf, kj {; \rightarrow gePdf cg/fivstf{/filo klfn] cg/fiv ul/g]/filo klfnf0{\vh:t ul/Psf]ljifosf af/df lagf sg}

19nf0{; \rightagf ug\$.

@)=cg/fil/stf{/fHo kIfn]cg/fil/ ul/g]/fHo kIf; E cg/fil/ sfof(j og ug{cfj Zos kg[xb; Dd afx]s cg/fil/df plNnlvt tYo / ; f/nf0{ ufl/o /flvlbg]ck]ff ug{; Sg]\$. olb cg/fil/ ul/g]/fHo kIfn]ufl/otf sfod /fVgkg[ztsf]kfngf ug{g; Sg]ePdf cg/fil/stf{/fHo kIfnf0{ tIsfn}; Irt ug[\$.

@!=kf/:kl/s sfggl; xfotf lgDg cj:yfdf OGsf/ ug{; lsg\$ M

-s_o; }wf/fsf kfj wfg cg'zk cg'/fiv ul/Psf]gePdfiv

-v_cg/fil/ ul/Psf]/fHo klfn]To:tf]cg/fil/ sfof(j og ubf{cf^gf]
 ; fj ffldstf, ; /Iff, ; fj ftlgs ; Joj:yf jf cGo cfwf/et lxtsf]
 k||tsh xb||nfullfil

-u_ cf^g}clwsf/ If q cGtut To:t}k\$f/sf]sg}s; /; E ; DalGwt
cg; Gwfg, cleofhg / Goflos sf/j fxlsf]cwlgdf /xl, cg/fw
ul/Psf] sfothf0{ cufl8 a9fpg cg/fw ul/Psf] /fHo kIfsf
lgsfox;nf0{cf^g}dhssf]sfggåf/f lgiflwt cj:yf ePdfl

-3_ cg/fy/ adfind cfk; L sfggl ; xfotf kbfg ubf{cg/fy/ ul/Psf]

/fllo klfsf]sfqql k4lt ljk/lt xg ; Sg]ePdf .

@e=/fHo kIfx;n]; DalGwt s; /df lj Qlo lj ifox; klg ; dfj /z ePsf]
eGg] Pp6} cfwf/df kf/:kl/s sfg\u00e9l ; xfotfsf] cg/fi\u00e9nf0{ OGsf/
ug{ Sq]5\u00e9q\u00e9

@#=kf/:kl/s sfggl; xfotf k\pfg gugfsf sf/0fx; k\pfg ul/gfs.

@\$=cg/fil/ ul/Psf]/filo klfn]dhtNcg/fil/sf cfwf/df oyf; So l56f]
kf/:kl/s sfgtl; xfotfsf]cg/fil/nf0{sfoffj og ug\$ / cg/fil/stf{
/filo klfn]stg}; dofj lw; enfj u/\$f]eP To; nf0{; Dej xtg]kt0f{
xb; Dd uxt0f ug\$ / To; sf nflu sf/0f klg lb0g\$. cg/fil/stf{
/filo klfn] cf^gf]cg/fil/sf; DaGwdf; Gt16 xtg cg/fil/ ul/Psf]
/filoaf/f ln0Psf pkfox; sf]l:ylt / kult; E ; DalGwt; t*gfsf
nflu ts{Et cg/fil/ ug{; Sg\$. cg/fil/ ul/Psf]/filo klfn]

cg/filvstf{/filosf ts{Et cg/filvsf; DaGwdf cg/filvsf]!:ylt / cg/filv cl3 a9fplFfsf] k\u00fcltsf] af/] hjfkm lbg\u00e5. cg/filvstf{/filonf0{ tbk/fGt ; xfotf cfj Zos gePdf ; f\u00e5f] ; \u00e5gf tTsfn} cg/filv ul/Psf]/filo klfnf0{k\u00ebfg ug\u00ebf.

@#=cg/fil/ ul/Psf] /filoaf/f rln/x\sf] cg\; Gwfg, cleofilng jf Goflos sf/jfxldf x:tlflk k\sfofpg] cfwf/df kf/:kl/s sfg\text{g}l ; xfotfnf0{

:ylut ug{; lsg\$.

@^=o; wf/fsf] k\$/0f @! adfind OGsf/ ug{jf k\$/0f @% adfind
 sfof(jog sfo(nfO{:ylut ug(eGbf cufl8, cg/fin ul/Psf]/fHo kIfn]
 cfj Zos ; Dem] cg'; ksf cj:yf / zt{isf cwlgdf /xl ; xfotf
 khfg ug{; lsg]jf g; lsg]eGg]lj ifodf lj rf/ ug{cg/finstf{/fHo
 kIf; E k/fdz{ug[s. olb cg/finstf{/fHo kIfn] To:tf zt{isf]
 cwlgdf /xl ; xfotf :jlsf/ u/dff tl zt{isf]kfngf ug[s.

@&=o; wf/fsf]k\$/0f !@ sf]sfoffjogsf]k|tsh gxg]u/l, sg}; flfl,
ljz]f1 jf cGo JolQmn] cg/fivstf{/fHosf] cg/fivdf, cg/fivstf{
/fHosf] lfqleq sf/jfxldf kdf0f lbg jf cg; Gwfg, cleoffng jf
Goflos sf/jfxldf ; xofju k\u00e4ofpg ; xdlt k\u00fbfg u/\u00e4f, To:tf]
JolQmnf0\u00e4 cg/fiv ul/Psf]/fHo klfsf]lfqaf6 k\u00e4yfg ug\u00e4cl3, lghn]
; f] lfqdf sg\u00e4 sfo\u00e4 u/\u00e4, gu/l jf ; hfo ; \u00e4f0Psf] cj:yfdf klg,
lghnf0\u00e4 cleoffng ul/g] ylgg] bl08t ul/g] jf lghsf] j\u00e4l0ms
:jtGqtf lgolGqt ul/g]5\u00e4, sg\u00e4; flfl jf ljz]f1 jf cGo JolQmnf0\u00e4
kf\u00e4t o:tf]; //lft Jojxf/ nuftf/ kGw|lbgeGbf a9lsf]; do kZrft
jf lghsf] pkl:ylt cfjZos gePsf]eGg]s/fsf]cflwsfl/s ; \u00e4gf
Goflos clwsf/ln]; lrt u/\u00e4f]ldltsf ; Gbe\u00e4f /fHo klfx\u00e2n]; xdlt
hgfPsf]; do kl5 jf ; f]/fHo 5f\u00e4\u00e4g]df\u00e4f k\u00e4f /x]a; \u00e4f jf lo:tf]
dh\u00e4af6 aflx/ uP klg cf^gf]:j\u00e4fn]k\u00e4M kms\u00e4f]cj:yfdf ; df\u00e4t
x\u00e4\u00e4.

@*=; DalGwt /fHo kIfx;n] cGoyf ; xdlt hgfPsf] cj:yfdf afx\$
cq/fW sfof(joq ; DaGwL ; fwf/Of vr(z) cq/fW ul/Psf] /fHo

klfåf/f Joxfl/g\\$. olb cg/fl/sf kl/kfngfsf nflu 7hf] jf ljz\rbrackf lsl; dsf] vr\{ nfu\rbrackf jf nfl\g] ePdf ; Dal\text{wt /fl\o klfx\cdot n} cg/fl/sf]sfof\text{j og s; /L ug\rbrackf etg]nufot s\text{st tl/sfaf6 vr\Joxf\rbrackf etg]af/\rbrackf cj:yf / zt\rbrackf \cdot ; \lgl\Zrt ug\rbrackf k/fdz\rbrackf ug\rbrackf \sqrt{k}

@(=cg/ff ul/Psf]/ff klfn]M

-s_cf^gf] dhssf] sfgg adf]hd ; j { fwf/0f hgtfnf0 { pknAw u/f0g] lsl; dsf cfkh, E /xf ; /sf/L clenf, lnvt jf

; rgfsf kltx; cg/fl/stf{/fllo klfnf0{kl/fg ug\}\)

-v_cf^gf] dh'ssf] sfgg adf]hd ; j{fwf/0f hgtfnf0{ pknAw gu/f0g]lsl; dsf cfkh; ti /x\$f sg}; /sf/L clen]v, lnvt jf ; h'gfsf k||tx¿ plrt nfu]sf zt{¿sf] cwlgdf /xl, cf^gf] ljj\$df, k0f{jf cflzs ¿kdf cg/fi]vstf{/fllo k1fnf0{k\psig ug{ ; \$g\$.

#)=/fHo kIfx;n] of] wf/fsf kfjwfgx;nf0{ Jofjxfl/s k\psif lbg jf a9fjf lbg / To; sf]p2\foklt\foklt\foklt\foklt\sqrt{f nflu, cfjZostf cg\;f/ l\dakIflo jf axkIflo; Denf\foklt\fo

wf/f \$& kn**ih**bf/l sf/jfxlsf]:yfgfGt/0f

/fllo klfx;n] cleoflpdf Wofg slbt ug{bli6af6, vf;u/L tld2fx; h; df lj leGg clwsf/ lfqx; ; dfj‡ ePsf 5g,\nf0{:yfgfCt/Of ubf{; dlrt Gofo ; Dkfbgsf] lxt ; //HfOf xg] 7fgdff, o; dxf; lGwåf/f:yflkt s; //sf]cleoflpgsf]sf/jfxlnf0{Ps csf{/fllodf:yfgfCt/Of ug{}; Defjgftkm(ljrf/ ug{}g\

wf/f \$* Sigg stoffjogdf ; xoff

 Pscsf{ @ lgs6:y /xL; xofu ugbg\ /fHo klfx; n]dhtMb}fosf

sfo{ug{kefjsf/Lpkfox; cjnDag ug 5g\M

-s_; DălGwit /fHo klfx¿ń] ; dlrt 7fg@lf cGo kmfbbf/L lqmofsnfkx¿; tī; DaGw /fVg] nufot o; dxf; lGwåf/f Joj:yf ul/Psf s; ysf; a}klfx; te ; DalGwt; rgfx;sf]; yllft/ btb/ cfbfg-kbfg ugsf nflu dfu{ kt:t ug{ cf^gf ; Ifd lgsfox, Ph(); [x; / ;]fx; sf alr cfj Zostf cg; f/ ;~rf/sf ; Dks{; ˈqx¿ :yfkgf ug]/ | ltgsf]clej [4 ug][

-v_ o; dxf; lGwaf/f Joj:yf ul/Psf s; /x;; ti ; DalGwt lqDq ljifodf 5fgljg ubf{c; /fHo klfx; nf0{; xof\ k\fopq\M

- (i) To:tf s; /x; df; mllq zsf:kb JolQmx; sf]klxrfq, cil:vlt / Igmofsnfkx; jf; Da4 cGo JolQmx; /x\$f]:yfg,
- (ii) To:tf s; / u/L kfl/t ul/Psf] cfk/flws cfh6 if ; DklQsf] cfxf7-bfxf7.
- (iii) To:tf s; // ubf{kbfW ul/Psf jf kbfW ug/OR5f /flvPsf ; DkIQ, ; fwg / cGo dfNbdx; sf]cfxf/-bfxf/,

-u_ljZnjfOf jf cg; Gwfgsf]k\pflhgsf nflu pkoOmtf cg; f/j:tsf]

cfj Zos cbt jf kl/df0f pknaw u/fpq]

-3_o; dxf; l6waf6 Joj:yf ul/Psf s; 7 ug{k\pfi ul/Psf unt klxrfgsf nflu kbflu ePsf, hfn; fh ul/Psf, x/km/ ul/Psf if eMff Invtx; / nsfpg] | 5kfpg]; DaGwL | qmofsnfk ug{cGo ; fwgx; nufot vf; k\$f/sf; fwg / tl/sfx;; E ; DalGwt ; rgf Ps-csf{/fllo klfalr pkoQmtf cg2k cfbfg-kbfg ug/

-a ; DalGwt /fHo kIfx; alr ; DkGg låkIflo ; Demft jf kaGwx; sf]cwlgdf /xl ; Dks{clwsf/lx;sf]kb:yfkg nufot sd(f/l / ljzif1x;sf) cfbfg-kbfg clej [4 ug{cf^gf;lfd lgsfox;, Ph(; lx; /;]fx; alr kefjsf/l; d6josf] dfu{ kz:t ugi

- -r_o; dxf; lGwdf Joj:yf ul/Psf s; //sf] clud klxrfgsf nflu ; \(\text{rgfx} \) sf] cfbfg-k\(\text{bfg} \) ug\(\text{J} \) pko\(\text{Qm} \) x\(\text{J} \) k\(\text{z} \) f; lgs tyf cGo pkfox\(\text{J} \) dG o sfod ug\(\text{J} \).
- @= o; dxf; lGwnf0{k\(\phi\)fjsfl/tf k\(\phi\)fg ug[b[i6n] /fHo klfx¿n] cf^gf
 sfg\(\beta\) sfof(j og lgsfox¿ alrsf]k[olf; xof]usf nflu l\(\alpha\)klflo jf
 axklflo; Denf\(\beta\)f jf k\(\alpha\)Gwx¿ df k]\(\beta\) ug{/ klxn\(\beta\)]v g}o; k\(\shf\)fsf
 ; Denf\(\beta\)f jf k\(\alpha\)Gwx¿ /x\(\shr\)fdf ltgnf0{; \(\mathbf{x}\)fyg ug\(\shr\)f nflu ljrf/
 ug\(\beta\)g\(\cig\) o; k\(\shr\)fsf; Denf\(\beta\)f jf k\(\alpha\)Gwx¿ ; Da4 /fHo klfx¿sf]
 alrdf gePsf] cj:yfdf lo:tf /fHo klfx¿n] o; dxf; lGw\(\delta\)ff
 Joj:yf ul/Psf s; /x\(\cig\)sf ; Da6wdf kf/:kl/s sfg\(\beta\) sfof(j og
 ; xof]\(\mathbf{u}\)sf]cfwf/lznfsf]\(\cig\)kdf o; \(\rack{\delta}\)f\(\mathbf{u}\)f\(\delta\)f\(\delta\)f\(\delta\) ug\(\beta\)j vg\(\delta\) lf\(\delta\)lo; \(\beta\)f\(\delta\) lf\(\delta\)lo; \(\beta\)f\(\delta\)lo; \(\delta\)f\(\delta\)lo; \(\delta\)f\(\delta\)lo; \(\delta\)f\(\delta\)lo; \(\delta\)f\(\delta

#= cfwlgs klj lw k\pf\underline u/L ul/Psf o; dxf; l6wdf ; dflj i6 s; //x¿sf] kltsf/ ug{/fllo klfx¿n]cf^gf ; fwg ; fltn]EofP; Dd ; xof\underline ug{

kof; ug¶g\

wf/f \$(; e0mcg; 0wfg

/fillo klfx;n] Ps jf PseGbf a9l /fillox;df cg;Gwfg, cleofthg jf Goflos sf/jfxl ugkgljifoj:tx;sf;DaGwdf,;Da4lgsfox;n]; eQm cg;GwgfIds lgsfox;:yfkgf ug{Sg]u/L låklflojf axklflo;Denf}f jf kaGwx;;DkGg uglljrf/ ugtgl o:tf;Denf}f / kaGwx;sf]cefjdf,;eQm cg;Gwfg ugkgl xg cfPdfd2lkR5];Denf}f u/L ug{;lsgto;sfo;sfotf;nellg/filloklfx;n]hg/filloklfsf]lfqdf cg;Gwfg xb]xf]To;sf];fjefd;Ofsf]kUf{;Ddfg ugls/f;lglZrt ugtgl

wf/f %) Ijz¶ cg; Qwfgfīds kNjlwx;

!= kios /fHo kifn] ei6frf/nf0{kefjsf/l ¿kdf klt/fiv ug{cf^g}bzsf]sfgbl Joj:yfsf cfwf/et l; 4fctx¿n]cgblt lbPsf]xb; Dd / cf^g}dhssf]sfgbn]lgwfl/t u/sf zt&¿ cg½k, cfjZostf cg½f, cf^gf]; fwg ; fln] EofP; Dd, cf^gf ; Ifd lgsfox¿åf/f lgolCqt cfklt&f]; dlrt k\pfilsf nflu / pkoQm nfudf cf^gf] lf\pleq ljBtlo jf cGo lsl; dsf ; /fsl / ukt sf/jfxl h:tf cGo ljzlf cg½ Cwfgfids kljilwx¿ tyf tl kljilwaf6 kfkt k\plotfoflo agfpq cgblt k\plotfq uq\$.

@= /fHo kIfx¿nf0{o; dxf; lGwdf Joj:yf ul/Psf s; /x¿sf]cg; Gwfg
ug{p2}on]cfjZostf cg; f/, cGt/f[6@ txdf; xof]u sfod ug{
; Gbe@ff, ljz]f cg; GwfgfIds k||j|wx¿ k\pf]udf Nofpg ; dlrt
låkIflo jf axkIflo ; Demft jf k\pfGwx¿ ; DkGg ug{ kf]; flxt
ul/Psf] 5 . o:tf ; Demft jf k\pfGwx¿ /fHox¿sf] ; fj @f]ds
; dfgtfsf] l; 4fGtsf] kUf{ kfngf x\phi] u/L ; DkGg x\phy\$q\/ nfu"

ul/q5q\tyf To:tf; Denftf / kaGwx; sf Joj:yfx; sf] clqifo{

kdf kfngf ul/q\$.

#= 0; wf/fsf]k\$/0f @ df Joj:yf ul/Psf; Denf}t jf k\(\alpha\) wz;sf]cefj /x\(\struct{sf}\) cj:yfdf, cGt/f\(\left(\left(\left(\left(\left)\) \text{tdf} \text{ o:tf ljz}\) cg\(\left(\left)\) wg\(\left(\left(\left(\left(\left)\) \text{ cg}\) \\ \text{klj lwx}\(\zert\) sf]k\(\reft(\left)\) ; \(\left(\left)\) 20k\(\left(\left)\) wg\(\left(\left(\left)\) \text{clusf} \\ \text{lf}\(\left(\left)\) clo k\(\alpha\) \(\left(\left)\) clo k\(\alpha\) \(\left(\left)\) \\ \text{lf}\(\left(\left)\) sf]\(\left(\left)\) ifonf0\(\left(\left(\left)\) \\ \\ \text{lf}\(\left(\left)\) ifonf0\(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left(\left)\) ifonf0\(\left(\left(\left)\) ifonf0\(\left(\left(\left(\left)\) ifonf0\(\left(\left(\left(\left)\) ifonf0\(\left(\left(\left(\left(\left(\left)\) ifonf0\(\left(\left(\left(\left)\) ifonf0\(\left(\

\$= cGt/fli6@ txdf lgolGqt cfklt&f] pkofu; DaGwl lgOffleq; DalGwt /fHo kIfsf]; xdltdf j:t'jf /sdnfO{kOffjf cflzs jkdf x6fpg jf:yfgfGt/Of ug{jf oyfjt /fVgsf nflu /f}g]/ cgdlt lbg]

h:tf k4ltx¿ ; dfj **½** xg ; Sg**5**g\

; fdf&o k¶jwfg

o; kl/R51) adf1]hd; DklQ lkmtf{ug_Isfo{o; dxf; l6wsf] cfwf/et l; 4f6t xf]//flo klfx; n]o; ; Da6wdf Ps-csf(66) clwsflws dfqfdf; xof1), ; xfotf k(66) ug(66)

wf/f %@

cfk/flws cfhgsf]x:tf6t/0fsf]/f\$yfd / vffhk8tfn

!= klos /flo klfn]o; dxf; l6wsf]wf/f !\$ sf] kltsh gxg] u/l, cf^gf] dhssf] sfgg cg½k xg] u/l, cfjZostf cg½f cf^gf] lfgleqsf ljQlo ; #yfx¿n] pRr-dNosf-vftfdf hDdf ul/Psf] /sdsf nfe klktstf{dflnssf]klxrfg ug{; dlrt sbd rfNg / dxIj kUf{; fj klgs sfo@f ; #Ug /xsf jf /lx/xsf JolQm cfknfjf lghsf tkm@f6 / ltglx¿sf kl/jf/sf ; b:ox¿ Pj + lgs6:y JolQmx¿af/f vflnPsf jf sfod /flvPsf vftfx¿sf] Jofks hfFk8tfn ug{Pj +ufxsx¿sf]klxrfg ; lglZrt ug{cfjZos kgI pkfox¿ cjnDag ugs . o:tf Jofks hfFk8tfn ; lfd lgsfox¿nfO{; lrt uglp2losf nflu zsf:kb sf/f]f/x¿ kQf nufpg]|sl; dn]ts{Et ¿kdf th@f ul/gs / To; nfO{sb}jiyflgs ufxs; to Joj; fo ug{ljQlo; #yfx¿nfO{lg?T; flxt ugljf jl~rt uglu/L JofVof ug{xb}.

@= o; wf/fsf] k\$/0f ! df Joj:yf ul/Psf pkfox;nf0{ nfu" ug{
 s/fnf0{ ; /nlst ug{ ktos /fHo klfn] cf^gf] dhssf] sfgt
 adflhd / ; DklQ z4ls/0f lj?4 ul7t lfhlo, cGt/lfhlo / axklflo
 ; E7qx; sf ; fble\$ k\phif; x; af6 kl/t /xl lqDq sfo{uq\$ M

- -s_cf^gf]clwsf/ Ifqleqsf ljQlo ; :+yfx¿af6 s:tf k\$f/sf kfs[ts
 jf sfgtl JolQmx¿sf vftfx¿ dfly Jofks hfFk8tfnsf]ck]ff
 ul/Psf]xf]; f]lj ifo, vf; lsl; daf6 Wbfg lbgkg[vftf / sf/f]f/sf]
 lsl; d tyf ; DalGwt vftfsf ; DaGwdf vftf vff]g] sfod /fVg]/
 clen]v /fVg]; dlrt pkfox¿ ; DaGwl lj ifodf ; enfjx¿ hf/l ug[
 sfo]v/
- -v_csfi/filo klfsf]cg/fil/df jf cf^g}k\phif; df, lj Qlo ; #yfx¿n]cGoyf
 klxrfg u/\fi kf|s[ts / sfg\phil JolOmx¿sf cltl/Qm lj Qlo
 ; #yfx¿sf vftfx¿sf] Jofks hfFk8tfnsf] ck]ff ul/Psf] xf] ; DaGwdf pkoQmtf adfil/nd cf^gf] clwsf/ lf\phileqsf lj Qlo
 ; #yfx¿nf0{; lrt ug[sfo\text{i}]
- #= o; wf/fsf] k\$/Of @ -s_ sf ; Gbe@ff, klos /fHo klfn] pkoQm; dofj lwe/ cf^gf lj Qlo ; #yfx¿n]o; }wf/fsf]k\$/Of ! df pNny ePsf JolQmx¿ ; #Ug /x\$f vftfx¿ / sf/f]f/x¿sf kof@t clenyx¿ /fVg] pkfox¿ cj nDag ug\$g,\ h; af6 sDtldf klg ufxssf]klxrfg; E ; DalGwt ; rgf nufot nfe kfktstf{dflnssf; rgfx¿ /flv/fVg]eGg]s/f; lglZrt xb\$.
- \$= o; dxf; l6wåf/f :yflkt s; 7x¿; E ; Dal6wt cfk/flws cfh6g x:tf6t/0f ug[sfo{/f\$g]/ kQf nufpg]p2pon]klo\$ /fllo kIfn] eflts pkl:ylt gePsf / lgodg ul/Psf lj Qlo ; dx; E ; Da6wg gePsf a\subsetxz :yfkgf ug{/f\subset} nufpg, cf^gf lgodgstf{/ lgo6q0f ug[lgsfox¿sf] d2taf6 ; dlrt / k\subsetfjsf/l pkfox¿ cjnDag ug\subset} . o; sf] cnfjf /fllo kIfx¿n] tl ; :yfx¿, h; n] eflts pkl:ylt gePsf / lgodg ul/Psf lj Qlo ; dx; E ; Da6wg gePsf a\subsetxznf0{cf^gf]vftf k\subsetflu ug{lb65g\ltglx¿nf0{o:tf ; :yf; E ; dfgf6t/ alseE ; Da6wdf kj\subsetz ug{jf Io:tf]; Da6w sfod ug{glbg / lj b\subsetz lj Qlo ; :yf; E ; Da6w sfod ug[s/f lj?4 rgfvf]/f\subsety cf^gf lj Qlo ; :yfx¿nf0{zt{tf\subset} g\subsete km{lj rf/ ug{; Sg\subset} g\subsete}

% kijos /filo klfn] cf^gf] dhssf] sfgg adfilhd ; fj hlgs clwsf/lx;n] kefjsf/l ;kdf ljQlo cj:yf;fjhlgs ug[k4lt :yfkgf ug[/ To; sf]kfngf gu/df; dlrt; hfosf]Joj:yf ug[/ klos /fHo klfn] o; dxf; lwaf/f :yflkt s; /sf] cg; wfg ug[To; sf]bfjL ug{/ cfk/flws cfh{g lkmtf{kfkt ug{c; /fllo klfsf ; Ifd lgsfo; ti ; thgf cfbfg-kbfg ug{ cf^gf ; Ifd lgsfox; nf0{ cadlt kbfq uq{cfjZostf cq;ksf pkfox; cjnDaq uq{klq lirf/ug\$.

^= klos /flo klfn]cf^gf]dhssf]sfgt adflhd, ljbtdf /xsf lj Olo vftfdf;/f\sf//f\q]jfx:tflf/uq\jfcGocl\vtof/L/f\q]pkoQm ; fj hlgs kbflwsf/lx¿n] To:tf] vftf; Esf] ; DaGw af/j pkoQm lgsfonf0{; Irt ug{/ To:tf vftf ; DaGwL pkoQm clen √fVg cfjZostf cg/k Joj:yf ug[pkfo cjnDag ug{ljrf/ ugb. o:tf]pkfon];f]kl/kfngf quq**h**f0{;dlrt;hfosf]Joj:vf;dt

ug5.

wf/f %#

; DkIO kjoIf ¿kdf lkntf{ug]; DaGNL pkfox;

klos /fllo klfn]cf^gf]dhssf]sfgg cg2k M

-s_o; dxf; l6wåf/f Joj:yf ul/Psf s; /x; u/L cfh6 ul/Psf] ; DklQdf xs jf :jfldTj :yflkt ug{cf^gf cbfntdf bjfgl d2f bfo/ ug{csf1/fllonf0{cfiZostf cg' f/ cgdlt kbfg ug{pkfox; cinDag ug5Ù

-v_o; dxf; l6waf/f Joj:yf ul/Psf s; // ug16f6 To:tf] s; //af6 k\fofOPsf] xflq gf\f\; fqL ; DaGwdf csf\f\/fHo kIfnfO{ IfItkIt{ if af\$; fqL e/fpq cfb½ lbq cfjZostf cq; f/ cf^qf cbfntx; nf0{

cgdlt kbfg ug{pkfox, cj nDag ug5Ù/

-u o; dxf; lGwåf/f Joj:yf ul/Psf s; / u/L cfhq u/\$f]; DklQ dfly jimgs :jfldījsfjbfjl ug{csfl/fllo klfnf0{dflotf basf nflu. hkmt ; DaGwl [gOff] I; nI; nfdf cbfnt jf ; Ifd $[gsfox \ge nf0]$ cfj Zostf cg', f/ cgdlt kbfg ug $[pkfox \ge cj$ nDag ug [f]

wf/f %\$ hknt ; DaGwdf cGt/**li**i6**c** ; xofl**i**hdfklft ; DkIQ lkntf{ ; DaGwl ; oGq

!= klos /fHo klfn] cf^gf] dhssf] sfgg adflhd xg] u/l, o; dxf; lGwaf/f Joj:yf ul/Psf s; "u/l cfhg ul/Psf] jf To; df ; dfj \textrm{ul/Psf}; DklQsf; DaGwdf o; dxf; lGwsf] wf/f \textrm{w} adflhd kf/:kl/s sfggl; xfotf k\textrm{fg ubf{:}}

-s_csf[/fHo klfsf]cbfntåf/f hf/L ul/Psf]hkmt ; DaGwL cfb½nf0{ sfoffGj t ug{ cf^gf ; Ifd lgsfonf0{ cgdlt lbg cfjZostf

cg; f/sf pkfox; cj nDag ug Di

-v_cf^gf] clwsf/ Ifqleqsf ljifodf, ljb½l pTklQsf] sg}; DklQ
; DaGwdf; DklQ z4ls/Ofsf] s; //sf] Goflos sf/jfxl ug{ qmddf
hkmtsf]cfb½ hf/l ug{jf cf^g}clwsf/ Ifqleqsf]xg; Sg]cGo sg}
s; //sf; DaGwdf jf cf^g} dhssf] sfggåf/f clVtof/l kþfg ug{
cfj Zostf cg½ksf pkfo cjnDag ug§i) /

-u_d[o'ePsf] knfog ePsf] cgkl:yt /x\straigf] jf cGo sg\; dIrt cj:yfdf s; \('bf/nf0\{cleof\text{hg ug}\{g; lsg]\ ePdf bf\text{if}\] 7x/ gePsf] eP klg To:tf]; DklQ hkmt ug\{ cgdlt k\text{hfg ug}\{ cfj\ Zostf

cg;ksf pkfox; cjnDag ug{ljrf/ ug{}.

@= cf^gf]dh\$sf]sfgg adf¶hd k¶o\$ /fHo kIfn]o; dxf; l6wsf]wf/f
%% sf]k\$/0f @ adf¶hd cg/fŊ ul/Psf]kf/:kl/s sfggL; xfotf
kbfg ubf{M

-s_ cg/fl/stf{/fllosf]cbfnt jf ; Ifd lgsfon]hf/L u/\stf]/fl/sf /fl/g]
 jf a/fdb ug[cfb\textrm{tdf cg/fl/y ul/Psf]/fllonf0{/fl/sf /fl/g]jf a/fdb

ug[sfo{ug{kofl(t cfwf/x¿ 5g\/ o; wf/fsf]k\$/0f!-s_sf]p2}osf nflu To:tf]; DklQnf0{cGttMhkmt ul/g\$ egl]ljZjf; ug{; lsg]ts{Et cfwf/ ePdf cf^gf; Ifd lgsfox¿nf0{To:tf]; DklQ/f\$sf /fVg]jf a/fdb ug[af/]cgdlt k\pfg ug{cfjZostf cg\zk}

pkfo cj nDag ug,

-v_; DkIQ /f§sf /fVg jf a/fdb ug{ul/Psf] cg/fNvdf kofKt cfwf/ ePsf]/ o; wf/fsf]k\$/0f! -s_ sf]k\psf nflu To:tf]; DkIQ cGttMhkmt ug{; lsg\psi egl ljZjf; ug\ts{\text{Et cfwf/ ePsf]egl} cg/fNv ul/g] /fHonf0{ljZjf; lbnfPdf cf^gf]; Ifd lgsfox¿nf0{ To:tf]; DkIQ /f\sf /fVg] jf a/fdb ug\text{To:dbl ug\text{To

wf/f %%

hkntsf]køffigsf nflu cGt/fli6@; xoffi

!= o; dxf; |Gwaf/f :yfikt s; //sf ; DaGwdf clwsf/ |Ifg ePsf] sg} /fHo kIfn] o; } dxf; |Gwsf] wf/f #! sf] k\$/0f ! df pNn]v eP adf]nd cf^gf] |Ifg||eq /x\\$f] cfk/flws cfh\(g, ; Dk|Q, ; fwg j f cGo df||bdx\cdot\sf] hkmt ; DaGwdf |Ifg|flwsf/ ePsf] csf\[sg\}/fHo kIfaf6 cg/f]v kfkt u/\flacedf f cf^gf] dh\[ssf] sfg\[k4|t adf]nd x\[g] u/L cg\[k ; Dej ePsf]xb; Dd b\[kfosf sfo\(k ; ug\[sh] \]

-s_hkmtsf]cfb½ kfkt ug{p2}osf nflu cf^gf ; Ifd lgsfo ; dlf cg/flv ug{/ To:tf]cfb½ kbfg ul/Psfdf To; nf0{sfofkj t

uq**l** if

-v_o; dxf; l6wsf]wf/f #! sf]k\$/0f ! / wf/f %\$ sf]k\$/0f ! -s_
 cg; f/ cg/ffwstf{/fHo klfsf]lfqleqsf]cbfntåf/f hf/L ul/Psf]
 hkmt ; Da6wL cfb]z olb cg/ffw ul/Psf] /fHosf] lfqleq /x\$f]

wf/f #! sf]k\$/0f ! df plNnlvt cfk/flws cfhg, ; DklQ, ; fwg jf cGo dfNbd; E ; DalGwt ePdf cg/fNv ul/Psf] xb; Dd To; nf0{ sfofg og ugg20n] cfgf ; Ifd Igsfo ; dIf kg2 ugg1.

@= o; dxf; lGwåf/f Joj:yf ul/Psf] sg} s; //; ti ; DalGwt lj ifodf
cf^gf]clwsf/ If ePdf csf[/fllo klfn]u/\frac{1}{sf}]cg/fivsf l; nl; nfdf,
cg/fiv ul/Psf] /fllo klfn] o; wf/fsf] k\$/0f ! cGtut ul/Psf]
cg/fiv adfind jf cg/fivstf{/flloaf6 ul/g]jf:tlj s hkmtsf]cfbt
; DaGwl k\phifngsf nflu of] dxf; lGwsf] wf/f #! sf] k\$/0f ! df
plNnlvt cfk/flws cfht, ; DklQ, ; fwg jf dfWodx¿sf]klxrfg ug{
kQf nufpg / /fsf /fVg jf a/fdb ug{cg/fiv ul/Psf] /fllon]
cfj Zos pkfox¿ cj nDag ug.

#= o; dxf; lGwsf wf/f \$^ sf kfj wfgx; o; wf/fsf; DaGwdf klg cfj Zos x]km]; lxt nfu"xg\$g\ wf/f \$^ sf]k\$/0f !% df Joj:yf ul/Psf; \rangle gfsf]cnfjf o; wf/f adf¶hd ul/Psf]cg/ffwdf b}fosf

s/fx¿/xg∯gW

-s_ o; wf/fsf]k\$/0f ! -s_ ; E ; DalGwt cg/fgVsf]xsdf, hkmt ug{
 elgPsf] ; DklQsf] ; Dej eP; Dd To; sf] cj!:ylt / ; fGble\$
 ePdf To:tf]; DklQsf]cgdflgt dNo / cg/fgV ul/Psf]/fHonf0{
 p; sf]cf^gf]dhssf]sfgg adf]nd cfb½ kfKt ug{kofKt xg]
 egl cg/fgVstf{/fHon]ljZjf; u/\$f tYox¿sf]ljj/Of nufotsf
 s/fx¿U

-v_o; wf/fsf] k\$/0f ! -v_ ; ti ; DalGwt cg/fysf] xsdf,
 cg/fystf{ /fHo kIfn] cfwf/ agfPsf] hkmt ; DaGwL cfb½sf]
 sfgtj adfind :jLsfo{xt]k|t, To:tf]cfb½ sfof(jogsf nflu
 cg/fy ul/Psf tYo / ; Ftgfx; sf]ljj /0f, jf:tlj s t] ti]kIfnf0{
 kof(t ; Ftgf kbfg ug{cg/fystf{ /fHo kIfn] cj nDag u/\$f

pkfox; pNn}v ePsf]ljj/Of / plrt k|qmofsf]; lglZrttf / hkmt ug{cfb}z clCtd ePsf]eGg]ljj/Of; DaGwL s/fx; Ù

- -u_o; wf/fsf]k\$/0f@; E ; DalGwt cg/fNsf]xsdf, cg/fNstf{
 /fHon]e/u/\$f tYox; sf]ljj/0f (statement) / cg/fN ul/Psf
 sfoX; sf] ljj/0f (description) / pknAw eP; Dd cg/fNdf
 cfwfl/t /x\$f]cfbZsf]sfgg adfNnd :jlsfo{xg]k|t; DaGwl
 s/fx;.
- \$= cg/fy ul/Psf]/filo klfn]o; wf/fsf]k\$/0f! / @ adfind lg0fo jf sfo{ ubf{ cf^gf] dhssf] sfggsf kfj wfg / To; sf sfo{j lwut lgodx¿ jf cg/fystf{/filo klfsf nflu aGwgsf/L xg]låklflo jf axklflo; Demff jf kåGw adfind tyf To; sf] cwlgdf /xl; fyl adfind ul/g\$.
- %= k႞oś /fHo kIfn] of] wf/fnf0{ k¢flj t ugi sfgg tyf lgodx; /
 To:tf sfgg tyf lgoddf tbk/fGt ePsf kl/j tgx; jf ltgsf]
 ljj/0f ; DaGwL k||t ; θQm /fi6καβsf dxf; lrjnf0{ pknAw
 u/fpg5.
- ^= olb sg} /fHo kIfn] o; wf/fsf k\$/0f ! / @ df plNnlvt pkfox;nf0{; DalGwt ; lGwdf ; zt{; kdf u\$0f ug[u/L rog u/d]f To:tf]/fHo kIfn]o; dxf; lGwnf0{cfjZos / kofl{t ; lGwsf]cfwf/sf]; kdf lj rf/ ug[5].

&= olb cg/fjv ul/Psf]/fHonf0{koff(t dfqfdf / ; dod}kdf0f kff(t gePdf jf ; DklQsf]dNo dfdhl ePdf o; wf/f adfjhdsf]; xofjv uq{0fsf/ uq{jf c:yfol pkfox; nf0{x6fpq klq ; lsq\$.

*= o; wf/f adfind sg}c:yfol pkfonf0{x6fpgkj {cg/fjv ul/Psf] /flo klfn]; Dej eP; Dd cg/fjvstf{/fllonf0{pkfonf0{lg/Gt/tf lbg]klfdf cf^gf sf/0f k|tt ug{df}sf kbfg ug}.

wf/f %^ |jz**j**f ; xof**j**f

olb o; dxf; lGw cg; f/sf cfk/flws cfhgx¿sf]af/\sf]; \Gf lbgfn]csf]/fllo klfnf0\{cg\; Gwfg, cleof\hg cyjf sfg\ld kl\text{qmof kf/De ug\{jf tfnld ug\{d2t kl\text{g}]nfu\rangle f jf pQm /fllo klfn]o; dxf; lGwsf]o; kl/R5\rangle adf\rangle d; f\sf]nflu cg\f\rangle f\rangle ug\{; Sg]nfu\rangle f cf^gf]dh\ssf]sfg\rangle sf]\rangle kl\text{qmof dfly k\rangle tsh c; / gkg\rangle u/\rangle ; f]dxf; lGwsf]klf ePsf]csf\rangle /fllonf0\rangle k\rangle \{cg\f\rangle f\rangle k\rangle f g\rangle pkn\rangle w u/fpg]af/]pkfox\rangle cj nDag ug\rangle k\rangle f; ug\rangle .

wl/f %& ; DkIO lkntf{/ albf]:tl

!= o; dxf; lGwsf] wf/f #! jf %% adf¶hd /fHo kIfn] hkmt u/\sf]; DkIQ, ; f]/fHo kIfn] o; dxf; lGw / cf^g\dh\ssf]sfg\bar{g} cg\; f/, o; wf/fsf]k\s\0f # adf¶hd, o; sf]k\s\0f\f\1\text{t\j\w} :j fdlnf0\{lkmtf\ug\}

nufotsf]aCbf]:tl ug5.

f= o; dxf; l6wsf] wf/f \$^ / %% tyf o; } wf/fsf] k\$/0f ! / @

adfind cg/fiv ul/Psf]/fllo klfn]bixfo adfind ug 5 M

-s_ o; dxf; l6wsf] wf/f !& / @# df pNn]v eP adf]hd ; fj hlgs sf]fsf] lxgfldgf jf lxgfldgf ul/Psf] ; fj hlgs sf]fsf] z4ls/0f ; Da6wl lj ifodf hkmt ; Da6wl sfo{wf/f %% cg'; f/ / cg/f]vstf{ /flo klfsf]cl6td lg0f6sf cfwf/df sfoff6jt ul/Psf]eP -hg zt{

cg/filv ul/Psf] /fHo kIfaf6 kl/Tofu ug{ ; IsG5 To:tf] hkmt ul/Psf]; DkIQ cg/fivstf{/filo kIfnf0{lkmtf{uait

- -v_ o; dxf; lGwleq pNnV ul/Psf cGo s; 7; ti ; DalGwt cfhasf lijifodf, hkmt ; DaGwl sfo{o; dxf; Gwsf] wf/f %% cg; f// ca/fivstf{/fHo kIfsf]clGtd lqOf6sf]cfwf/df sfoffGjt ul/Psf] eP, ; fy}ca/fivstf{/filo klfn]hkmt ul/Psf]; DklQsf]ki{{:ifldTi ts{Et _kdf :yflkt ub5 eq]cyjf ha cg/fiv ul/Psf]/fllon] cg/fivstf{/fHonf0{hkmt ul/Psf]; DkIQ lkmtf{ug}cfwf/sf]; kdf gf\$; fglnf0{ df6otf lb65 eg] cg/fjv ul/Psf] /fHo klfaf6 sq} zthfÖ{kl/Tofu ug{;lsg]eP, hkmt ul/Psf];DklQ cg/fNstff /fHo kIfnf0{lkmtf{ugl/
- -u afEl cGo; a}|iifosf xsdf hkmt ul/Psf]; DklQ To; sf]kf[{t jivflgs :jfdlnf0{lkmtf{u/L jf s; //sf kll8t klfnf0{lfltklt{|jb0{ cg/fivstf{/fHodf To:tf]; DkIQ |kmtf{ug{pRr kfyldstf kbfg ug{.
- \$= \f\\delta kIfn]cGoyf \text{lgOf\(\text{gu/\shr}f]cj:\text{yfdf cg/f\(\text{ly ul/Psf]/f\\ lo kIfn]} wf/f adflind hkmt ul/Psf]; DklQ lkmtf{jf aGbf]:t ug[; DaGwdf cg'; Gwfg, cleoflyg if Goflos sf/jfxL ug [qmddf if:tjdf nfu\$f]ts{Et vr{pkoQmtf cg; f/ s§f ug{; Sq\$.

%= /fHo kIfx; n] hkmt ul/Psf]; DklQsf] clGtd aGbf]:tlsf nflu d2NkR5]|jrf/ ug{u/L ; Denf}f ug{jf kf/:kl/s ¿kdf :jlsfo{xb] kaux; ug{pkoOmtf cg; f/ lj zif 9En]lj rf/ ug{; Sq\$q\

wf/f %*

/flo klfx;n] o; dxf; l6wåf/f Joj:yf ul/Psf cfk/flws cfhgx;sf]:yfgf6t/0fnf0{lgol6qt ug{/ k||t/f]v ug{tyf To:tf cfhg lkmtf{ug{pkfo / tl/sfsf]k|46 ug{Ps-cfk; df; xofu ug\$g\tyf $\label{thm:condition} $$ Io; $$ k\phi f \ gsf nflu z f: kb ij Qlo sf/f] f/ af/]; $$ Ifd $\ lgsf ox_nf0 { ; l'rt ug$ f nflu ; l'rgf kfkt ug$ ij Zn$ if Qf ug$ / kj fx ug$ lhDd] f/l; $$ lxtsf] ij Qlo $$ lgu/fgl $$ Psf0 {: yfkgf ug$ km(lj rf/ ug$ g$ \ log$ for each of the property of the$

wf/f %(låklflo / axklflo ; Denfff / kåQux¿

/flo klfx;n] dxf; l6wsf] o; kl/R5b adflnd ux0f ul/Psf] c6t/fli6@; xoflu clej [4sf nflu låklflo jf axklflo; Denf):f jf ka6wx; ; Dk6g ug{j rf/ ugbg\

kl/R5)- 5 **k¶j lws**; **xfotf** /; **r**gf **cfbfg-k**)**f**g *wf/f* ^)

tinld / kljiws ; xioti

!= klos /fHo klfn] cfj Zostf cg; f/, elefrf/ lgoGqOf ugl/ klt/flv ugl lhDd] f/L kfPsf cf^gf sd{f/LnfO{ lbOg] ljz] f tfnLd sfoqmdx; sf] z?jft, ljsf; jf; wf/ ugl o:tf tfnLd sfoqmdx; n] cGo s/fsf cltl/Qm b} fosf lfqx; df Wbfg lbg; Sg] 5gWl

-s_kdf0f; sng / cg; Gwfgdhs k4ltx;sf] pkoflutf nufot elofrf/ lgoGq0f ug1k0f nufpg] cg; Gwfg ug1b08 lbg]/ lgoGq0f

ug[kefj sf/l pkfox_l

-v_e|ofrf/lj?4sf]/Ofgilts glltsf]ljsf; / oflngf lgdf@f lfdtfj [4]

-u_ o; dxf; lGwsf zt{klt{ug{u/l kf/:kl/s sfggl ; xfotf ; DaGwl cg/fylv; tof/ ug{; lfd lgsfox; sf]tfnldl)

-3_; fj hlgs vI/b laqnl / lghl lfq nufotsf; #yfx¿,; fj hlgs;]f Joj:yfkg /; fj hlgs lj Qsf]Joj:yfkgsf]dNofl g tyf; anls/0fl

- -a_o; dxf; l6wåf/f Joj:yf ul/Psf cfk/flws cfh@xzsf] :yfgf6t/0fnf0{|go6q0f ug]/ k||t/f]v ug]/ To:tf cfh@ |kmtf{ug] ; Da6wdfD
- -r_o; dxf; lGwåf/f Joj:yf ul/Psf cfk/flws cfhgx¿sf]:yfgfGt/0f, kQf nufpg]/ /f\$sf /fVg]; DaGwdfÜ
- -5_ o; dxf; l6wåf/f Joj:yf ul/Psf cfk/flws cfh@x;sf]cf}f]-bf}f] dfly lgu/fgl /fVg]/:yfgf6t/0fsf tl/sf Pj +o:tf cfh@nf0{nsfpg] jf klxrfg abNg]tl/sfU

-h_o; dxf; lGwåf/f Joj:yf ul/Psf cfk/flws cfhfx; lkmtf{u/fpg dfu{kz:t ug{; dlrt / kefjsf/L sfggL / kzf; lgs ; eGq tyf k4ltil

- -em_Goflos lgsfox;nf0{; xoflu k\fofpg] kll8t / ; flflx;sf]; //lffsf] nflu k\psi_u x\psi]k4lt\u00e4/
- -`_/fli6@/cGt/fli6@sfgglljifo/efiffdftfnld.
- @= /filo kifx¿n] dhtM o; }wf/fsf] k\$/0f ! df pilnivt ifqx¿df
 eflts ; dyg / tfnld nufot ej6frf/sf] k|t/filv ugipglx¿sf
 oflhgf / sfoqmdx¿nf0{kmf0bf kiofpg]u/l tyf ; kbul / kf/:kl/s
 sfggl ; xfotfsf ifqdf /filo kifx¿ alrsf]cGt/li6@; xoflunf0{
 ; /nlst tNofpg]u/l ; Da4 cgej / ljlzi6lst lfgsf]kf/:kl/s
 cbfg-kbfg / ; xoflu tyf tfnld ; Da6wl ljifodf cf-cf^gf] ifdtf
 cg'; f/, vf; u/l ljsf; fldv dhsx¿nf0{ nfebfos xg] u/l Pscsfhf0{Jofks dfqfdf kijj lws ; xfotf kbfg ug{ljrf/ ugbg\

#= /fHo klfx;n] cGt/f[i6@ / lf]lo ; E7gx;df / ; DalGwt laklflo / axklflo ; Denf}t jf kaGwx;df sfof(jog / tfnld ; DaGwl lqmofsnfkx;nf0{ a9fjf lbg] k\phif; x;nf0{ cfjZostf cg'; f/

; anls/0f ug5g\

\$= /fHo kIfx¿n] ei6frf/nf0{ klt/fiv ug{ ; Ifd lgsfo / ; dfhsf]
 ; xeflutfdf /0fgllt / sfo&flhgfx¿ ljsl; t ug[p2]fon]cf-cf^gf
 dhsdf ei6frf/sf lsl; d, sf/0f, kefj / dNo; E ; DalGwt dNoffg,
 cWoog / cg'; Gwfg ; ~rfng ug[; DaGwdf cg/fivsf cfwf/df Ps csf\[hf0{\}; xfotf ug{\}j rf/ ug\]5g\

%= /filo klfx¿n]o; dxf; l6wåf/f Joj:yf ul/Psf cfk/flws cfh6x¿
lkmtf{ug]sfofif0{; /nlsf ug\$f nflu ; f]p2}o kflktsf]lglDt d2t
k\fofpg ; Sg]lj z]f1x¿sf]gfd Ps-csffif0{k\fofp ug]sfofif ; xof]u

ug{; Sg\$g\

^= /flo klfx;n]ljsf;fldv dhs / ; qmd0fsfnlg cy{oj:yf ePsf dhssf ljz]f ; d:of / cfjZostfx; nufot ; xofu, kfljlws ; xfotf clej [4 tyf cfk;l;/fsf/sf; d:ofx; dflysf]5nkmnf0{kflj;flxt ug{pklfqlo, lfqlo / cGt/fli6@; Ddjngx;sf]pkofu; DaGwdf ljrf/ ugsg\

&= /filo klfx¿n]o; dxf; l@wnf0{kflj lws ; xfotf sfo@md / kl/oflngf
dfkmf sfo@k lbg lj sf; f]dv b]z / ; emd0fsfnlg cy{oj:yf ePsf
dhsx¿sf kof; x¿nf0{lj Qlo ¿kdf d2t k¥ofpg]p2}on]:j]R5s
cofg :vflof ugfliref/ ugfliref

; eGq :yfkgf ug{lj rf/ ug≸g\

*= ktos /filo klfnjof dxf; lw sfof(jog ug{p2}on] ljsf; f]dv dhsx;sf sfo(jmd / kl/of)hgfx;nf0{nfu"cf)fw / ck/fw; DaGwl; \text{\text{\text{o}}m /fi6}\times^{\text{\text{a}}\text{Slo sfof(no dfkmt; j+4(j) ug{; f]sfof(nonf0{:j]}R5s}; kdf of)ubfg lbg lj rf/ ug{sq}\

wf/f ^! eif6frf/ ; DaQwl ; Fgf ; sng, cfbfg-klþfg / IjZnifOf

Cfbfg-k\pfg / IjZn\pf0f
!= k\partial 0\rightarrow /fHo k\pin || z\precip 1 x \rightarrow sf] k\precip (0 nufot e\pi 6 frf/sf] ck/fw ul/g]kl/l:yltsf] || Zn\precip 7 n\precip 6 frf/sf] || zn\precip 7 n\precip 6 frf/sf] || zn\precip 7 n\precip 7 n\prec

uq5.

@= /flo klfx;n]Ps-cfk; df cGt/fli6@ tyf lfglo; E7gx; dfkmf;
; Dej eP; Dd, ; dfg kl/efiff, dfkb08 / sfof{4lt nufot ei6frf/
lgoGq0f / klt/flv ug{cfbz{Jojxf/ljsl; t ug{p2}fon]tYoffx;,
ei6frf/; E ; DalGwt ljZn]f0ffids ljz]f1tf / ; Fgfx; ljsl; t
ug{/ lx:; fbf/ aGg]tkm(ljrf/ ug{fg})

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/ xfotfåf/f dxf; l@vsf]sfoffjog
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; Dej eP; Dd of] dxf; lGwnfO{ clwstd ¿kdf sfof{jog ug{ ; xof}ll xb]pkfox¿ cjnDag ug{5g\

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; Dej eP; Dd b}fosf sfo{¿ ug{7f] kþf; x¿ ug∱g\M

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-u_ljsf; f]dv / ; qmdOfsfnlg cy{oj:yf ePsf dhsx;nf0{o;
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 k\phfg ug. o; k\phflhgsf nflu /fHo kIfx;n]dhtMo; }p2\fosf]
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\$= /filo klfxzn] eil6frf/ lgjf/0f, klxrfg / lgo6q0f ug{ tyf o; dxf; l6wn] Joj:yf u/\structure{s}f] c6t/filo@; xofilusf; fwgnf0{ k\end{kefj sf/L}

tNofpg cfjZos kg{ ljQlo k\psi\wnf0{ \wfgdf \f\b} j:t\ut \cf\wf\e\tarter{t} ; xfotfsf ljifodf l\particle{k}\lflo \f\ axk\lflo ; \text{Denf}t jf k\particle{k}\wx\gegre{z}; \text{Dk\G} ug\{; \text{Sg}\particle{g}\}

kl/R5**1**)- ; ft sfof**(j** ogsf ; **e**(qx; *wf/f ^#*

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!= o; dxf; l6wdf Joj:yf ul/Psf p21ox;sf] kflKt Pj + o;sf] sfof(jogsf]; j+4g tyf kg/fjnf\sq ug\sf nflu /flo klfx;sf alrdf lfdtf /; xof\ldf; \wf/ Nofpg o; dxf; l6wsf /flo klfx;sf]; Dd\ldfg:yfkgf ul/Psf]5.

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kIfx¿sf ; Ddjngsf lgoldt a}sx¿ ; Ddjngn] cëlsf/ u/\$f

sfolj lw; DaGwL Igod adfillnd a:glbg\

#= /fHo kIfx;sf]; Ddjngn] ko{]fsx;sf] kj½ / ; xeflutf; E ; DalGwt lgodx; nufot o; wf/fdf Joj:yf ul/Psf lqmofsnfkx;sf]sfofGjog; DaGwL Pj+tL lqmofsnfk;~rfng ug{ nfUg]vr\$f]eQmfgL; DaGwL sfoUj|wut / cGo lgod kfl/t ug\subseteq.

\$= /fHo kIfx;sf];Dding o; wf/fsf] k\$/0f! df Joj:yf ul/Psf p21/o kf|Ktsf nflu b1/fosf ultlj lw nufotsf lqmofsnfk, sfolj lw

/ k4ltx¿df ; xdt xg\$M

- -s_:jIR5s ofJubfg kl/rfng ug{ kf]; flxt ug{ nufot o; dxf; lGwsf wf/f ^) / ^@ tyf kl/R5Jb b0JbJv kfF cGtutsf lqmofsnfkdf; xofJu k\u00e4ofpg]
- -v_o; wf/fdf pNn]v ePsf ; Da4 ; rgf nufotsf dfNodx; af6
 cfk/flws cfhg lkmtf{ug]/ e|6frf/ lgjf/0f / k|t/f]vsf ; km
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 klfx; sf alrdf cfbfg-kbfg ug{; xof] k¥ofpg[]

-u_; Da4 cGt/ $\{li6@ / lfqlo ; E7gx \ge tyf ; e6q Pj +u\}; /sf/l ; =yfx \ge nf0{; xoflu k\left\{} ofpq\left\{}$

-3_ sfdsf]cgfj Zos kg/fj [Qaf6 56sf/f kfpgsf nflu ei6frf/sf] k|t/fi|v / lgj f/0f ug\$f nflu cGo cGt/fli6@ / lfi|tlo ; eGqx¿n] pikfbq u/\$f ; Da4 ; \text{rgfx} sf]; dIrt k\text{bfi|v ug}

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kg/fj nf\$g ug

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-5_o; dxf; l6wsf] sfof(j ogsf; Ďa6wdf /fHo kIfx; sf kflj lws; xfotfsf cfj Zostf af/] Wofg k¥ofpg] / ; f] k\u00fbffgsf nflu

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%= o; wf/fsf]k\$/0f \$ sf]k\phif\pasf nflu, /fHo kIfx¿sf]; Dd\pashgn]
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pkfox¿ / To; f] ubf\{pglx¿n]ef\gk/\pashf sl7gf0x¿ af/]pglx¿n]
k\phifg u/\pashf; \text{"gf / /fHo kIfx¿sf]; Dd\pashgn]:yfkgf ug\{; Sg]k/s
kg/fj nf\pashg ; \text{\text{\text{eq}}} df\langleddaf6 cfj Zos hfgsf/L kf\text{\text{\text{t}} ug\pashf.}

^= klos /fHo klfn] /fHo klfx;sf]; Ddingn]cfjZos; Dem]adflnd, of]dxf; lGw sfof(j og ug]; DaGwl cf^gf sfo(md, of]ngf / Jojxf/, nufot ljwflosl / klf; lgs pkfox; af/] /fHo klfx;sf]; DdingnfO{; lngf klpfg ugs. /fHo klfx;sf]; Ddingn]; lfd cGt/{li6@; lngf klpf ugs. /fHo klfx;af6 klkt cltl/Qm; lngf nufot cGo s/f klkt ugs. / To:tf; lngf dfly sf/jfxl ugs. aeGbf klpf sf/l tl/sfsf]hfFaemugs. /fHo klfx;sf]; Dding4f/f lglbi6 xg]sfolj lw adflnd; Da4 us; /sf/l; lngf; lsgs.

&= /filo klfx;sf]; Ddingn]cfjZos; Demilf o; dxf; l6wsf]k\epsilonfsflk\epsilonfsflk\epsilonfsflk\square\text{sf} sfof(j) ogdf; xof) k\epsilonfsflk\square\text{sf} (j) ogdf; xof) k\epsilonfsflk\square\text{sf

sq}pkoQm; eGq if lqsfo :yfkqf uq\$.

- != ; ⊕Qm /fi6*a%sf dxf; lrjn] o; dxf; lGwsf /fHo klfx¿sf]; Ddjhgnf0{cfjZos; lrjfno;]f k\psig ug\sqrt{g}\
- e ; Irj fnon]M
- -s_ /fHo klfx;sf]; DdjhgnfO{ o; dxf; lGwsf] wf/f ^# df Joj:yf ul/Psf lqmofsnfkx;nfO{sfofGjt ug{/ /fHo klfx;sf]; Ddjhgsf a]sx;sf]k\(\text{a}Gw\) ldnfpg / cfj Zos;]f k\(\text{b}fg\) ug{; xofU ug}\(\text{b}\) -v_ o; dxf; \(\text{lGwsf}\) wf/f ^# sf k\(\text{s}/0f\) % / ^ df p\\n]y eP adf\(\text{l}\)hd
- -v_ o; dxf; l6wsf] wf/f ^# sf k\$/0f % / ^ df pNnJv eP adf]hd
 /fHo k1fx¿sf]; Ddjhgnf0{; \text{"rgf k\psifu ug]}; Da6wdf cg/fJv ePdf
 /fHo k1fx¿nf0{; xofJu ug]\$\text{\text{\$\ex\\$\$}\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\t
- -u_ ; Da4 cGt/(li6@ / If(jlo ; Ë7gsf ; Irjfnox; ; E cfjZos ; dGjo ; lglZrt ug[5].

kl/R5**b**- cf7 clGtd Joj:yfx; wf/f ^%

dxf; l@vsf]sfof**(j** og

!= ktos /fHo klfn] o; dxf; l6w c6tutsf bflotjx;sf] sfottj ognf0{; lglZrt ug{ cf^gf] dhssf] sfgtjsf cfwf/ett l; 4f6tx; cg; k xtj] u/l, lj wflosl / kt/; lgs nufotsf cfj Zos pkfox; cj nDag ugt.

@= klos /filo klfn] elofrf/sf] lgjf/0f / klt/filvsf nflu o; dxf; l6wn] Joj:yf u/sf e6bf yk sl7g jf s7f] pkfox;

cjnDag ug{; Sg\$.

wf/f ^^ ljjfbsf]; dfwfg

!= o; dxf; l6wsf] JofVof jf sfof(jog; E ; Dal6wt ljjfb /fHo klfx;n]iftf{ff; dfwfg ug{k\phif; ug\psig\

o; dxf; l6wsf]JofVof jf sfof(jog; DaGwdf b0{jf b0\early 6bf a9l /fHo kIfx; alr pTk6g ljjfb dgfl; j; doleq jftf\early ff/f; dfwfg x\text{g} g; s\text{df}, tl d\text{db\structsf} s\text{g}\text{Ps} /fHo kIfsf]cg/f\text{df} df, d\text{Wo:ytfsf nflu cg/f\text{d} ul/Psf]ldltn]^ dlxgfleq tl /fHo kIfx; d\text{Wo:ysf]u7g ug{; xdt x\text{g} g; s\text{df, tl d\text{Wo\structsf}} s\text{g} \text{Pp6f /fHo kIfn] c\text{cf/f\text{li6\text{\text{e}} Gofofnosf] lj wfg adf\text{nd cg/f\text{\text{u}} u/l; f]ljjfb p\text{Qm Gofofnodf k\text{\text{lift} ug{; Sg\text{\text{\text{b}}.

#= klos /fHo klfn] o; dxf; lGwdf x:tflf/, cgdflog, :jls[t jf; dyg jf; lDdng ubfsf] cj:yfdf o; wf/fsf] k\$/0f @ sf]
Joj:yf cfkllnf0{aGwgsf/L gxg]eGg]s/fsf]3f]f0ff ug{; Sglsq\
o; k\$f/sf]cf/lf0f /fVg]sy}/fHosf; Gbe@ff o; wf/fsf]k\$/0f @

af6 c; /fHo kIfx; afWb xb]5gg\

\$= o; wf/fsf]k\$/0f # adf¶hd cf/lf0f /fv\$f]sg}klg /fHo klfn]; eOm /fi6*a\sf dxf; lrj nf0{; lrt u/L sg}klg ; dodf ; f] cf/lf0f lkmtf{lng ; Sg\\$.

wf/f ^&

x:tflf/, cgdflg, :jlslt, ;dyg / ;lbdng

- != of]dxf; lGw; g\@))# sf](l8; Qa/b]\v !! l8; Qa/; Dd d]\S; sf\sf] d]\gfdf / tbk/f\Gt ; g\@))% sf] (l8; Qa/; Dd ; \text{\text{\text{o}}Cm} /\fi6\x^a\Ssf]\d\fofno, Go\f\state{\text{\text{\text{o}}f}} \text{\text{\text{\text{\text{b}}f}}} x: tfIf/sf nflu vhf /xg\state{\text{
- @ o; wf/fsf] k\$/0f ! adfind o; dxf; l6wdf, sg} Ifind cflyst
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 To:tf]; E7gsf nflu klg of]dxf; l6w x:tflf/sf nflu vhf /xg\$.
- \$= of]dxf;lGw sg}klg /fHo jf cf^gf]sDtldf sg}Ps ;b:o o; dxf;lGwsf];b:o /x\stractionsf]lf\qlo cfly\times Psls/Of; \times Tgaf6 xg] ;lDdngsf nflu vhf /xg\times .;lDdngsf]lnvt;\times Qm /fi6\times \times Ssf dxf;lrj; dlf bflvnf ul/g\times . If\qlo cfly\times Psls/Of; \times Tgn] dxf;lGwsf];lDdngsf; dodf o; dxf;lGwn] Joj:yf u/\times f ljifox;sf; DaGwdf cf^gf] sfo{ If\quad sf}; ldfsf] af/\times f

ug\$. o:tf]; E7gn]cf^gf]sfo{Ifqsf]; Ldfsf af/df sq}; f6ble\$ kl/jtau/df To:tf]; raf; dt clenv clwsf/lnf0{kbfg ug\$.

!= bflvnf ePkl5sf]gAactffbgdf kfl/De xg5 . o; k\$/0fsf]k\psf nflu, Ifalo cflys Psls/Of ; E7an] hDdf u/sf] sq}cfnvnf0{ To:tf]; E7gsf /fHo klfx; n] hDdf u/sf]e6bf cltl/Qm dfgfdf

u0fqf ul/q]5g.

o; dxf; lowsf] cqdfbq, :jls[t, ;dy(q if ;lbdnq u/sf] tl;fF <u>@</u>= Invt bflvnf ePkl5 ktos /flo if Ifalo cflys Psls/0f ; Ë7qsf nflu, of] dxf; lGw o:tf]/fHo jf ; Ë7gn]; Da4 Invt bflvnf u/sf] tl; lbgkl5 if o; wf/fsf] ks/0f! adf**l**hd of] dxf: ICw kf/De ePsf]lbq dWb]hq k5fl8 xG5, ; fxL ldltaf6 kf/De xφ. ξ

> wf/f ^(

!= of] dxf; l(w kf/De ePsf] $Idl \bar{t} \bar{n}$ kfF j if{Joltt ePkl5 sg}/fHo klfn]; zfwqsf|k|tfj /fVq; Sq\$ / To:tf|k|tfj; eQm/fi6«a%sf dxf; lrj ; dlf k7fpg\$, lghn] tbk/fGt k|tfljt ; æfil/g dfly ljrf/ / lg0f(ug(sf nflu ; f] k|tfj af/] /fHo klfx; / /fHo klfx¿sf];Ddj\gnf0{;Irt ug\fg\\/fHo klfx¿sf];Ddj\gn]k\fo\s ; zfwqdf ; j{Ddlt kfkt uq{x/; Dej k\psi; uq\subseteq . ; j{Ddltsf nflu ; a} k\psi; x\z ubf{klg sg}; x\dltdf kllg g; lsPdf To:tf] ; zfwgnf0{ clitd pkfosf]; kdf, /fHo klfx; sf]; Ddhqsf]a7sdf pkl:yt e0{dtbfg uq{/fHo klfx;sf]b0{txf0{axdtn]kfl/t uq{ cfiZos xb.

@= Ifqlo cfly\(Psls/0f; \(\) E7gx\(\) n]cf^gf]sfo\(\) Ifqleqsf lj ifodf, o;
wf/f adf\(\) d cf^gf]dtflwsf/sf]k\(\) ff\(\) ubf\(\) o; dxf; l6wsf kIf ePsf
cf^gf; b:o \(f\) Hox\(\) sf]; \(\) Wofs \(a\) fa/sf] dtsf]; \(\) Wofsf \(c\) fwf\(\) ug\(\) g\\ o:tf; \(\) E7gx\(\) n] cf^gf; \(\) b:ox\(\) n] cf^gf] dtflwsf\(\) k\(\) fi\(\) ug\(\) fg\\ o; yfdf \(\) cf^gf] dtflwsf\(\) sf] k\(\) ff\(\) ug\(\) fg\\\ o; yfdf \(\) ug\(\) fg\\\

#= o; wf/fsf] k\$/0f ! adf¶hd kfl/t ; zfyg /fHo klfx¿åf/f

\$= o; wf/fsf]k\$/0f! adf|nd kfl/t ul/Psf; zflyg, To:tf]; zflygsf] cgdflyg, :jls[t jf; xdltsf]lnvt; eQm /fi6xassf dxf; lrj; dlf bflvnf u/sf]ldltn]gAa]lbgkl5; f]/fHo klfsf xsdf kf/De xd5.

wf/f &) cnu xg]

!= sg}/fHo kIfn]; eQm/fi6*a\sf dxf; \lrj\nf0{\ln\vt\hfgsf/L\lb0{\of]dxf; \lg\waf6\cnu\xg\; \sg\. \dxf; \lrj\nf0{\lo:\tf]\hfgsf/L\kf\t\epsf]\ld\tn]\rs\j\iff\ls\lo:\tf]\loi:\tf]\hfgsf/L\kf\t\epsf]\ld\ta\.

e sg} [fglo cflys Psls/Of; E7gsf; a]/fHo k[fn] of] dxf; [wkl/Tofu u/sf] cj:yfdf To:tf]; E7gsf] o; dxf; [wsf]; b:otf

; dfKt xg₺ .

wf/f &! cleny clwsf/l / efiffx;

- != o; dxf; lGwsf] cleny clwsf/Lsf] ¿kdf ; \(\theta \text{Qm} \) /fi6xa\sf dxf; lrj nf0\{tf\right
- @= c/al, Irlgof, cuthl, ktfG; hl, /l; ofnl / :ktl efiffsf o; dxf; lGwsf dh kttx; ; dfg ; kn] ktdflOfs /xtf 5g\/; eOm /fi6xat; lrj; ; dlf bflvnf ul/gtg\
- o; s/fsf]; flflsf] ¿kdf; DalGwt; /sf/x¿af6 lj lwj t ¿kdf clVtof/ kfKt u/\$f b}fosf; jffwsf/; DkGg x:tflf/sf/L k||tlglwx¿n] o; dxf; lGwdf x:tflf/ u/\$f 5g\

UNITED NATIONS CONVENTION AGAINST CORRUPTION

PREAMBLE

The States Parties to this Convention,

Concerned about the seriousness of problems and threats posed by corruption to the stability and security of societies, undermining the institutions and values of democracy, ethical values and justice and jeopardizing sustainable development and the rule of law.

Concerned also about the links between corruption and other forms of crime, in particular organized crime and economic crime, including moneylaundering,

Concerned further about cases of corruption that involve vast quantities of assets, which may constitute a substantial proportion of the resources of States, and that threaten the political stability and sustainable development of those States,

Convinced that corruption is no longer a local matter but a transnational phenomenon that affects all societies and economies, making international cooperation to prevent and control it essential.

Convinced also that a comprehensive and multidisciplinary approach is required to prevent and combat corruption effectively,

Convinced further that the availability of technical assistance can play an important role in enhancing the ability of States, including by strengthening capacity and by institution-building, to prevent and combat corruption effectively,

Convinced that the illicit acquisition of personal wealth can be particularly damaging to democratic institutions, national economies and the rule of law,

Determined to prevent, detect and deter in a more effective manner international transfers of illicitly acquired assets and to strengthen international cooperation in asset recovery,

Acknowledging the fundamental principles of due process of law in criminal proceedings and in civil or administrative proceedings to adjudicate property rights,

Bearing in mind that the prevention and eradication of corruption is a responsibility of all States and that they must cooperate with one another, with the support and involvement of individuals and groups outside the public sector, such as civil society, non-governmental organizations and community-based organizations, if their efforts in this area are to be effective,

Bearing also in mind the principles of proper management of public affairs and public property, fairness, responsibility and equality before the law and the need to safeguard integrity and to foster a culture of rejection of corruption,

Commending the work of the Commission on Crime Prevention and Criminal Justice and the United Nations Office on Drugs and Crime in preventing and combating corruption,

Recalling the work carried out by other international and regional organizations in this field, including the activities of the African Union, the Council of Europe, the Customs Cooperation Council (also known as the World Customs Organization), the European Union, the League of Arab States, the Organization for Economic Cooperation and Development and the Organization of American States,

Taking note with appreciation of multilateral instruments to prevent and combat corruption, including, inter alia, the Inter -American Convention against Corruption, adopted bv Organization of American States on 29 March 1996, the Convention on the Fight against Corruption involving Officials of the European Communities or Officials of Member States of the European Union, adopted by the Council of the European Union on 26 May 1997, the Convention on Combating Bribery of Foreign Public Officials in International Business Transactions, adopted by the Organisation for Economic Cooperation and Development on 21 November 1997, the Criminal Law Convention on Corruption, adopted by the Committee of Ministers of the Council of Europe on 27 January 1999, the Civil Law Convention on Corruption, adopted by the Committee of Ministers of the Council of Europe on 4 November 1999, and the African Union Convention on

Preventing and Combating Corruption, adopted by the Heads of State and Government of the African Union on 12 July 2003,

Welcoming the entry into force on 29 September 2003 of the United Nations Convention against Transnational Organized Crime,

Have agreed as follows:

Chapter I General provisions

Article 1

Statement of purpose

The purposes of this Convention are:

- (a) To promote and strengthen measures to prevent and combat corruption more efficiently and effectively;
- (b) To promote, facilitate and support international cooperation and technical assistance in the prevention of and fight against corruption, including in asset recovery;
- (c) To promote integrity, accountability and proper management of public affairs and public property.

Article 2 Use of terms

For the purposes of this Convention:

(a) "Public official" shall mean: (i) any person holding a legislative, executive, administrative or judicial office of a State Party, whether appointed or elected, whether permanent or temporary, whether paid or unpaid, irrespective of that person's seniority; (ii) any other person who performs a public function, including for a public agency or public enterprise, or provides a public service, as defined in the domestic law of the State Party and as applied in the pertinent area of law of that

- State Party; (iii) any other person defined as a "public official" in the domestic law of a State Party.
- However, for the purpose of some specific measures contained in chapter II of this Convention, "public official" may mean any person who performs a public function or provides a public service as defined in the domestic law of the State Party and as applied in the pertinent area of law of that State Party;
- (b) "Foreign public official" shall mean any person holding a legislative, executive, administrative or judicial office of a foreign country, whether appointed or elected; and any person exercising a public function for a foreign country, including for a public agency or public enterprise;
- (c) "Official of a public international organization" shall mean an international civil servant or any person who is authorized by such an organization to act on behalf of that organization;
- (d) "Property" shall mean assets of every kind, whether corporeal or incorporeal, movable or immovable, tangible or intangible, and legal documents or instruments evidencing title to or interest in such assets:
- (e) "Proceeds of crime" shall mean any property derived from or obtained, directly or indirectly, through the commission of an offence;
- (f) "Freezing" or "seizure" shall mean temporarily prohibiting the transfer, conversion, disposition or movement of property or temporarily assuming custody or control of property on the

- basis of an order issued by a court or other competent authority;
- (g) "Confiscation", which includes forfeiture where applicable, shall mean the permanent deprivation of property by order of a court or other competent authority;
- (h) "Predicate offence" shall mean any offence as a result of which proceeds have been generated that may become the subject of an offence as defined in article 23 of this Convention;
- (i) "Controlled delivery" shall mean the technique of allowing illicit or suspect consignments to pass out of, through or into the territory of one or more States, with the knowledge and under the supervision of their competent authorities, with a view to the investigation of an offence and the identification of persons involved in the commission of the offence.

Scope of application

- 1. This Convention shall apply, in accordance with its terms, to the prevention, investigation and prosecution of corruption and to the freezing, seizure, confiscation and return of the proceeds of offences established in accordance with this Convention.
- 2. For the purposes of implementing this Convention, it shall not be necessary, except as otherwise stated herein, for the offences set forth in it to result in damage or harm to state property.

Article 4 Protection of sovereignty

- 1. States Parties shall carry out their obligations under this Convention in a manner consistent with the principles of sovereign equality and territorial integrity of States and that of non-intervention in the domestic affairs of other States.
- 2. Nothing in this Convention shall entitle a State Party to undertake in the territory of another State the exercise of jurisdiction and performance of functions that are reserved exclusively for the authorities of that other State by its domestic law.

Chapter II Preventive measures

Article 5

Preventive anti-corruption policies and practices

- 1. Each State Party shall, in accordance with the fundamental principles of its legal sys tem, develop and implement or maintain effective, coordinated anti-corruption policies that promote the participation of society and reflect the principles of the rule of law, proper management of public affairs and public property, integrity, transparency and accountability.
- 2. Each State Party shall endeavour to establish and promote effective practices aimed at the prevention of corruption.
- 3. Each State Party shall endeavour to periodically evaluate relevant legal instruments and administrative measures with a view to determining their adequacy to prevent and fight corruption.
- 4. States Parties shall, as appropriate and in accordance with the fundamental principles of their legal system, collaborate with each other and with relevant international and regional organizations in promoting and developing the measures referred to in this article. That collaboration may include participation in international programmes and projects aimed at the prevention of corruption.

Preventive anti-corruption body or bodies

- Each State Party shall, in accordance with the fundamental principles of its legal system, ensure the existence of a body or bodies, as appropriate, that prevent corruption by such means as:
 - (a) Implementing the policies referred to in article 5 of this Convention and, where appropriate, overseeing and coordinating the implementation of those policies;
 - (b) Increasing and disseminating knowledge about the prevention of corruption.
- 2. Each State Party shall grant the body or bodies referred to in paragraph 1 of this article the necessary independence, in accordance with the fundamental principles of its legal system, to enable the body or bodies to carry out its or their functions effectively and free from any undue influence. The necessary material resources and specialized staff, as well as the training that such staff may require to carry out their functions, should be provided.
- 3. Each State Party shall inform the Secretary-General of the United Nations of the name and address of the authority or authorities that may assist other States Parties in developing and implementing specific measures for the prevention of corruption.

Article 7 Public sector

- 1. Each State Party shall, where appropriate and in accordance with the fundamental principles of its legal system, endeavour to adopt, maintain and strengthen systems for the recruitment, hiring, retention, promotion and retirement of civil servants and, where appropriate, other non-elected public officials:
 - (a) That are based on principles of efficiency, transparency and objective criteria such as merit, equity and aptitude;
 - (b) That include adequate procedures for the selection and training of individuals for public positions considered especially vulnerable to corruption and the rotation, where appropriate, of such individuals to other positions;
 - (c) That promote adequate remuneration and equitable pay scales, taking into account the level of economic development of the State Party;
 - (d) That promote education and training programmes to enable them to meet the requirements for the correct, honourable and proper performance of public functions and that provide them with specialized and appropriate training to enhance their awareness of the risks of corruption inherent in the performance of their functions. Such programmes may make reference to codes or standards of conduct in applicable areas.

- 2. Each State Party shall also consider adopting appropriate legislative and administrative measures, consistent with the objectives of this Convention and in accordance with the fundamental principles of its domestic law, to prescribe criteria concerning candidature for and election to public office.
- 3. Each State Party shall also consider taking appropriate legislative and administrative measures, consistent with the objectives of this Convention and in accordance with the fundamental principles of its domestic law, to enhance transparency in the funding of candidatures for elected public office and, where applicable, the funding of political parties.
- 4. Each State Party shall, in accordance with the fundamental principles of its domestic law, endeavour to adopt, maintain and strengthen systems that promote transparency and prevent conflicts of interest.

Codes of conduct for public officials

- 1. In order to fight corruption, each State Party shall promote, inter alia, integrity, honesty and responsibility among its public officials, in accordance with the fundamental principles of its legal system.
- 2. In particular, each State Party shall endeavour to apply, within its own institutional and legal systems, codes or standards of

- conduct for the correct, honourable and proper performance of public functions.
- 3. For the purposes of implementing the provisions of this article, each State Party shall, where appropriate and in accordance with the fundamental principles of its legal system, take note of the relevant initiatives of regional, interregional and multilateral organizations, such as the International Code of Conduct for Public Officials contained in the annex to General Assembly resolution 51/59 of 12 December 1996.
- 4. Each State Party shall also consider, in accordance with the fundamental principles of its domestic law, establishing measures and systems to facilitate the reporting by public officials of acts of corruption to appropriate authorities, when such acts come to their notice in the performance of their functions.
- 5. Each State Party shall endeavour, where appropriate and in accordance with the fundamental principles of its domestic law, to establish measures and systems requiring public officials to make declarations to appropriate authorities regarding, inter alia, their outside activities, employment, investments, assets and substantial gifts or benefits from which a conflict of interest may result with respect to their functions as public officials.
- 6. Each State Party shall consider taking, in accordance with the fundamental principles of its domestic law, disciplinary or

other measures against public officials who violate the codes or standards established in accordance with this article.

Article 9

Public procurement and management of public finances

- 1. Each State Party shall, in accordance with the fundamental principles of its legal system, take the necessary steps to establish appropriate systems of procurement, based on transparency, competition and objective criteria in decision-making, that are effective, inter alia, in preventing corruption. Such systems, which may take into account appropriate threshold values in their application, shall address, inter alia:
 - (a) The public distribution of information relating to procurement procedures and contracts, including information on invitations to tender and relevant or pertinent information on the award of contracts, allowing potential tenderers sufficient time to prepare and submit their tenders;
 - (b) The establishment, in advance, of conditions for participation, including selection and award criteria and tendering rules, and their publication;
 - (c) The use of objective and predetermined criteria for public procurement decisions, in order to facilitate the subsequent

- verification of the correct application of the rules or procedures;
- (d) An effective system of domestic review, including an effective system of appeal, to ensure legal recourse and remedies in the event that the rules or procedures established pursuant to this paragraph are not followed;
- (e) Where appropriate, measures to regulate matters regarding personnel responsible for procurement, such as declaration of interest in particular public procurements, screening procedures and training requirements.
- 2. Each State Party shall, in accordance with the fundamental principles of its legal system, take appropriate measures to promote transparency and accountability in the management of public finances. Such measures shall encompass, inter alia:
 - (a) Procedures for the adoption of the national budget;
 - (b) Timely reporting on revenue and expenditure;
 - (c) A system of accounting and auditing standards and related oversight;
 - (d) Effective and efficient systems of risk management and internal control: and
 - (e) Where appropriate, corrective action in the case of failure to comply with the requirements established in this paragraph.
- 3. Each State Party shall take such civil and administrative measures as may be necessary, in accordance with the

fundamental principles of its domestic law, to preserve the integrity of accounting books, records, financial statements or other documents related to public expenditure and revenue and to prevent the falsification of such documents.

Article 10 Public reporting

Taking into account the need to combat corruption, each State Party shall, in accordance with the fundamental principles of its domestic law, take such measures as may be necessary to enhance transparency in its public administration, including with regard to its organization, functioning and decision-making processes, where appropriate. Such measures may include, inter alia:

- (a) Adopting procedures or regulations allowing members of the general public to obtain, where appropriate, information on the organization, functioning and decision-making processes of its public administration and, with due regard for the protection of privacy and personal data, on decisions and legal acts that concern members of the public;
- (b) Simplifying administrative procedures, where appropriate, in order to facilitate public access to the competent decision-making authorities; and
- (c) Publishing information, which may include periodic reports on the risks of corruption in its public administration.

Measures relating to the judiciary and prosecution services

- Bearing in mind the independence of the judiciary and its crucial role in combating corruption, each State Party shall, in accordance with the fundamental principles of its legal system and without prejudice to judicial independence, take measures to strengthen integrity and to prevent opportunities for corruption among members of the judiciary. Such measures may include rules with respect to the conduct of members of the judiciary.
- 2. Measures to the same effect as those taken pursuant to paragraph 1 of this article may be introduced and applied within the prosecution service in those States Parties where it does not form part of the judiciary but enjoys independence similar to that of the judicial service.

Article 12 Private sector

 Each State Party shall take measures, in accordance with the fundamental principles of its domestic law, to prevent corruption involving the private sector, enhance accounting and auditing standards in the private sector and, where appropriate, provide effective, proportionate and dissuasive civil, administrative or criminal penalties for failure to comply with such measures.

- 2. Measures to achieve these ends may include, inter alia:
 - (a) Promoting cooperation between law enforcement agencies and relevant private entities;
 - (b) Promoting the development of standards and procedures designed to safeguard the integrity of relevant private entities, including codes of conduct for the correct, honourable and proper performance of the activities of business and all relevant professions and the prevention of conflicts of interest, and for the promotion of the use of good commercial practices among businesses and in the contractual relations of businesses with the State:
 - (c) Promoting transparency among private entities, including, where appropriate, measures regarding the identity of legal and natural persons involved in the establishment and management of corporate entities;
 - (d) Preventing the misuse of procedures regulating private entities, including procedures regarding subsidies and licences granted by public authorities for commercial activities;
 - (e) Preventing conflicts of interest by imposing restrictions, as appropriate and for a reasonable period of time, on the professional activities of former public officials or on the employment of public officials by the private sector after their resignation or retirement, where such activities or

- employment relate directly to the functions held or supervised by those public officials during their tenure;
- (f) Ensuring that private enterprises, taking into account their structure and size, have sufficient internal auditing controls to assist in preventing and detecting acts of corruption and that the accounts and required financial statements of such private enterprises are subject to appropriate auditing and certification procedures.
- 3. In order to prevent corruption, each State Party shall take such measures as may be necessary, in accordance with its domestic laws and regulations regarding the maintenance of books and records, financial statement disclosures and accounting and auditing standards, to prohibit the following acts carried out for the purpose of committing any of the offences established in accordance with this Convention:
 - (a) The establishment of off-the-books accounts;
 - (b) The making of off-the-books or inadequately identified transactions;
 - (c) The recording of non-existent expenditure;
 - (d) The entry of liabilities with incorrect identification of their objects;
 - (e) The use of false documents; and
 - (f) The intentional destruction of bookkeeping documents earlier than foreseen by the law.

4. Each State Party shall disallow the tax deductibility of expenses that constitute bribes, the latter being one of the constituent elements of the offences established in accordance with articles 15 and 16 of this Convention and, where appropriate, other expenses incurred in furtherance of corrupt conduct.

Article 13

Participation of society

- 1. Each State Party shall take appropriate measures, within its means and in accordance with fundamental principles of its domestic law, to promote the active participation of individuals and groups outside the public sector, such as civil society, non-governmental organizations and community-based organizations, in the prevention of and the fight against corruption and to raise public awareness regarding the existence, causes and gravity of and the threat posed by corruption. This participation should be strengthened by such measures as:
 - (a) Enhancing the transparency of and promoting the contribution of the public to decision-making processes;
 - (b) Ensuring that the public has effective access to information;
 - (c) Undertaking public information activities that contribute to non-tolerance of corruption, as well as public education programmes, including school and university curricula;

- (d) Respecting, promoting and protecting the freedom to seek, receive, publish and disseminate information concerning corruption. That freedom may be subject to certain restrictions, but these shall only be such as are provided for by law and are necessary:
- (i) For respect of the rights or reputations of others;
- (ii) For the protection of national security or ordre public or of public health or morals.
- 2. Each State Party shall take appropriate measures to ensure that the relevant anti-corruption bodies referred to in this Convention are known to the public and shall provide access to such bodies, where appropriate, for the reporting, including anonymously, of any incidents that may be considered to constitute an offence established in accordance with this Convention.

Measures to prevent money-laundering

- 1. Each State Party shall:
 - (a) Institute a comprehensive domestic regulatory and supervisory regime for banks and non-bank financial institutions, including natural or legal persons that provide formal or informal services for the transmission of money or value and, where appropriate, other bodies particularly susceptible to money-laundering, within its competence, in order to deter and detect all forms of money-laundering,

- which regime shall emphasize requirements for customer and, where appropriate, beneficial owner identification, record-keeping and the reporting of suspicious transactions;
- (b) Without prejudice to article 46 of this Convention, ensure that administrative, regulatory, law enforcement and other authorities dedicated to combating money-laundering (including, where appropriate under domestic law, judicial authorities) have the ability to cooperate and exchange information at the national and international levels within the conditions prescribed by its domestic law and, to that end, shall consider the establishment of a financial intelligence unit to serve as a national centre for the collection, analysis and dissemination of information regarding potential money-laundering.
- 2. States Parties shall consider implementing feasible measures to detect and monitor the movement of cash and appropriate negotiable instruments across their borders, subject to safeguards to ensure proper use of information and without impeding in any way the movement of legitimate capital. Such measures may include a requirement that individuals and businesses report the cross-border transfer of substantial quantities of cash and appropriate negotiable instruments.
- 3. States Parties shall consider implementing appropriate and feasible measures to require financial institutions, including money remitters:

- (a) To include on forms for the electronic transfer of funds and related messages accurate and meaningful information on the originator;
- (b) To maintain such information throughout the payment chain; and
- (c) To apply enhanced scrutiny to transfers of funds that do not contain complete information on the originator.
- 4. In establishing a domestic regulatory and supervisory regime under the terms of this article, and without prejudice to any other article of this Convention, States Parties are called upon to use as a guideline the relevant initiatives of regional, interregional and multilateral organizations against money-laundering.
- 5. States Parties shall endeavour to develop and promote global, regional, subregional and bilateral cooperation among judicial, law enforcement and financial regulatory authorities in order to combat money-laundering.

Chapter III

Criminalization and law enforcement

Article 15

Bribery of national public officials

Each State Party shall adopt such legislative and other measures as may be necessary to establish as criminal offences, when committed intentionally:

- (a) The promise, offering or giving, to a public official, directly or indirectly, of an undue advantage, for the official himself or herself or another person or entity, in order that the official act or refrain from acting in the exercise of his or her official duties:
- (b) The solicitation or acceptance by a public official, directly or indirectly, of an undue advantage, for the official himself or herself or another person or entity, in order that the official act or refrain from acting in the exercise of his or her official duties.

Article 16

Bribery of foreign public officials and officials of public international organizations

 Each State Party shall adopt such legislative and other measures as may be necessary to establish as a criminal offence, when committed intentionally, the promise, offering or giving to a foreign public official or an official of a public international organization, directly or indirectly, of an undue advantage, for the official himself or herself or another person or entity, in order that the official act or refrain from acting in the exercise of his or her official duties, in order to obtain or retain business or other undue advantage in relation to the conduct of international business.

2. Each State Party shall consider adopting such legislative and other measures as may be necessary to establish as a criminal offence, when committed intentionally, the solicitation or acceptance by a foreign public official or an official of a public international organization, directly or indirectly, of an undue advantage, for the official himself or herself or another person or entity, in order that the official act or refrain from acting in the exercise of his or her official duties.

Article 17

Embezzlement, misappropriation or other diversion of property by a public official

Each State Party shall adopt such legislative and other measures as may be necessary to establish as criminal offences, when committed intentionally, the embezzlement, misappropriation or other diversion by a public official for his or her benefit or for the benefit of another person or entity, of any property, public or private funds or securities or any other thing of

value entrusted to the public official by virtue of his or her position.

Article 18 Trading in influence

Each State Party shall consider adopting such legislative and other measures as may be necessary to establish as criminal offences, when committed intentionally:

- (a) The promise, offering or giving to a public official or any other person, directly or indirectly, of an undue advantage in order that the public official or the person abuse his or her real or supposed influence with a view to obtaining from an administration or public authority of the State Party an undue advantage for the original instigator of the act or for any other person;
- (b) The solicitation or acceptance by a public official or any other person, directly or indirectly, of an undue advantage for himself or herself or for another person in order that the public official or the person abuse his or her real or supposed influence with a view to obtaining from an administration or public authority of the State Party an undue advantage.

Article 19 Abuse of functions

Each State Party shall consider adopting such legislative and other measures as may be necessary to establish as a criminal offence, when committed intentionally, the abuse of functions or position, that is, the performance of or failure to perform an act, in violation of laws, by a public official in the discharge of his or her functions, for the purpose of obtaining an undue advantage for himself or herself or for another person or entity.

Article 20 Illicit enrichment

Subject to its constitution and the fundamental principles of its legal system, each State Party shall consider adopting such legislative and other measures as may be necessary to establish as a criminal offence, when committed intentionally, illicit enrichment, that is, a significant increase in the assets of a public official that he or she cannot reasonably explain in relation to his or her lawful income.

Article 21 Bribery in the private sector

Each State Party shall consider adopting such legislative and other measures as may be necessary to establish as criminal offences, when committed intentionally in the course of economic, financial or commercial activities:

- (a) The promise, offering or giving, directly or indirectly, of an undue advantage to any person who directs or works, in any capacity, for a private sector entity, for the person himself or herself or for another person, in order that he or she, in breach of his or her duties, act or refrain from acting;
- (b) The solicitation or acceptance, directly or indirectly, of an undue advantage by any person who directs or works, in any capacity, for a private sector entity, for the person himself or herself or for another person, in order that he or she, in breach of his or her duties, act or refrain from acting.

Article 22

Embezzlement of property in the private sector

Each State Party shall consider adopting such legislative and other measures as may be necessary to establish as a criminal offence, when committed intentionally in the course of economic, financial or commercial activities, embezzlement by a person who directs or works, in any capacity, in a private sector entity of any property, private funds or securities or any other thing of value entrusted to him or her by virtue of his or her position.

Laundering of proceeds of crime

- 1. Each State Party shall adopt, in accordance with fundamental principles of its domestic law, such legislative and other measures as may be necessary to establish as criminal offences, when committed intentionally:
 - (a) (i) The conversion or transfer of property, knowing that such property is the proceeds of crime, for the purpose of concealing or disguising the illicit origin of the property or of helping any person who is involved in the commission of the predicate offence to evade the legal consequences of his or her action;
 - (ii) The concealment or disguise of the true nature, source, location, disposition, movement or ownership of or rights with respect to property, knowing that such property is the proceeds of crime;
 - (b) Subject to the basic concepts of its legal system:
- (i) The acquisition, possession or use of property, knowing, at the time of receipt, that such property is the proceeds of crime;
- (ii) Participation in, association with or conspiracy to commit, attempts to commit and aiding, abetting, facilitating and counselling the commission of any of the offences established in accordance with this article.
- 2. For purposes of implementing or applying paragraph 1 of this article:

- (a) Each State Party shall seek to apply paragraph 1 of this article to the widest range of predicate offences;
- (b) Each State Party shall include as predicate offences at a minimum a comprehensive range of criminal offences established in accordance with this Convention;
- (c) For the purposes of subparagraph (b) above, predicate offences shall include offences committed both within and outside the jurisdiction of the State Party in question. However, offences committed outside the jurisdiction of a State Party shall constitute predicate offences only when the relevant conduct is a criminal offence under the domestic law of the State where it is committed and would be a criminal offence under the domestic law of the State Party implementing or applying this article had it been committed there;
- (d) Each State Party shall furnish copies of its laws that give effect to this article and of any subsequent changes to such laws or a description thereof to the Secretary-General of the United Nations:
- (e) If required by fundamental principles of the domestic law of a State Party, it may be provided that the offences set forth in paragraph 1 of this article do not apply to the persons who committed the predicate offence.

Article 24 Concealment

Without prejudice to the provisions of article 23 of this Convention, each State Party shall consider adopting such legislative and other measures as may be necessary to establish as a criminal offence, when committed intentionally after the commission of any of the offences established in accordance with this Convention without having participated in such offences, the concealment or continued retention of property when the person involved knows that such property is the result of any of the offences established in accordance with this Convention.

Article 25 Obstruction of justice

Each State Party shall adopt such legislative and other measures as may be necessary to establish as criminal offences, when committed intentionally:

- (a) The use of physical force, threats or intimidation or the promise, offering or giving of an undue advantage to induce false testimony or to interfere in the giving of testimony or the production of evidence in a proceeding in relation to the commission of offences established in accordance with this Convention;
- (b) The use of physical force, threats or intimidation to interfere with the exercise of official duties by a justice or law

enforcement official in relation to the commission of offences established in accordance with this Convention. Nothing in this subparagraph shall prejudice the right of States Parties to have legislation that protects other categories of public official.

Article 26 Liability of legal persons

- 1. Each State Party shall adopt such measures as may be necessary, consistent with its legal principles, to establish the liability of legal persons for participation in the offences established in accordance with this Convention.
- 2. Subject to the legal principles of the State Party, the liability of legal persons may be criminal, civil or administrative.
- 3. Such liability shall be without prejudice to the criminal liability of the natural persons who have committed the offences.
- 4. Each State Party shall, in particular, ensure that legal persons held liable in accordance with this article are subject to effective, proportionate and dissuasive criminal or non-criminal sanctions, including monetary sanctions.

Article 27

Participation and attempt

1. Each State Party shall adopt such legislative and other measures as may be necessary to establish as a criminal

- offence, in accordance with its domestic law, participation in any capacity such as an accomplice, assistant or instigator in an offence established in accordance with this Convention.
- 2. Each State Party may adopt such legislative and other measures as may be necessary to establish as a criminal offence, in accordance with its domestic law, any attempt to commit an offence established in accordance with this Convention.
- 3. Each State Party may adopt such legislative and other measures as may be necessary to establish as a criminal offence, in accordance with its domestic law, the preparation for an offence established in accordance with this Convention.

Article 28 Knowledge, intent and purpose as elements of an offence

Knowledge, intent or purpose required as an element of an offence established in accordance with this Convention may be inferred from objective factual circumstances.

Article 29 Statute of limitations

Each State Party shall, where appropriate, establish under its domestic law a long statute of limitations period in which to commence proceedings for any offence established in accordance with this Convention and establish a longer statute of limitations period or provide for the suspension of the statute of limitations where the alleged offender has evaded the administration of justice.

Article 30

Prosecution, adjudication and sanctions

- 1. Each State Party shall make the commission of an offence established in accordance with this Convention liable to sanctions that take into account the gravity of that offence.
- 2. Each State Party shall take such measures as may be necessary to establish or maintain, in accordance with its legal system and constitutional principles, an appropriate balance between any immunities or jurisdictional privileges accorded to its public officials for the performance of their functions and the possibility, when necessary, of effectively investigating, prosecuting and adjudicating offences established in accordance with this Convention.
- 3. Each State Party shall endeavour to ensure that any discretionary legal powers under its domestic law relating to the prosecution of persons for offences established in accordance with this Convention are exercised to maximize the effectiveness of law enforcement measures in respect of those offences and with due regard to the need to deter the commission of such offences.

- 4. In the case of offences established in accordance with this Convention, each State Party shall take appropriate measures, in accordance with its domestic law and with due regard to the rights of the defense, to seek to ensure that conditions imposed in connection with decisions on release pending trial or appeal take into consideration the need to ensure the presence of the defendant at subsequent criminal proceedings.
- 5. Each State Party shall take into account the gravity of the offences concerned when considering the eventuality of early release or parole of persons convicted of such offences.
- 6. Each State Party, to the extent consistent with the fundamental principles of its legal system, shall consider establishing procedures through which a public official accused of an offence established in accordance with this Convention may, where appropriate, be removed, suspended or reassigned by the appropriate authority, bearing in mind respect for the principle of the presumption of innocence.
- 7. Where warranted by the gravity of the offence, each State Party, to the extent consistent with the fundamental principles of its legal system, shall consider establishing procedures for the disqualification, by court order or any other appropriate means, for a period of time determined by its domestic law, of persons convicted of offences established in accordance with this Convention from:
 - (a) Holding public office; and

- (b) Holding office in an enterprise owned in whole or in part by the State.
- 8. Paragraph 1 of this article shall be without prejudice to the exercise of disciplinary powers by the competent authorities against civil servants.
- 9. Nothing contained in this Convention shall affect the principle that the description of the offences established in accordance with this Convention and of the applicable legal defences or other legal principles controlling the lawfulness of conduct is reserved to the domestic law of a State Party and that such offences shall be prosecuted and punished in accordance with that law.
- 10. States Parties shall endeavour to promote the reintegration into society of persons convicted of offences established in accordance with this Convention.

Freezing, seizure and confiscation

- 1. Each State Party shall take, to the greatest extent possible within its domestic legal system, such measures as may be necessary to enable confiscation of:
 - (a) Proceeds of crime derived from offences established in accordance with this Convention or property the value of which corresponds to that of such proceeds;

- (b) Property, equipment or other instrumentalities used in or destined for use in offences established in accordance with this Convention.
- 2. Each State Party shall take such measures as may be necessary to enable the identification, tracing, freezing or seizure of any item referred to in paragraph 1 of this article for the purpose of eventual confiscation.
- 3. Each State Party shall adopt, in accordance with its domestic law, such legislative and other measures as may be necessary to regulate the administration by the competent authorities of frozen, seized or confiscated property covered in paragraphs 1 and 2 of this article.
- 4. If such proceeds of crime have been transformed or converted, in part or in full, into other property, such property shall be liable to the measures referred to in this article instead of the proceeds.
- 5. If such proceeds of crime have been intermingled with property acquired from legitimate sources, such property shall, without prejudice to any powers relating to freezing or seizure, be liable to confiscation up to the assessed value of the intermingled proceeds.
- 6. Income or other benefits derived from such proceeds of crime, from property into which such proceeds of crime have been transformed or converted or from property with which such proceeds of crime have been intermingled shall also be liable to

- the measures referred to in this article, in the same manner and to the same extent as proceeds of crime.
- 7. For the purpose of this article and article 55 of this Convention, each State Party shall empower its courts or other competent authorities to order that bank, financial or commercial records be made available or seized. A State Party shall not decline to act under the provisions of this paragraph on the ground of bank secrecy.
- 8. States Parties may consider the possibility of requiring that an offender demonstrate the lawful origin of such alleged proceeds of crime or other property liable to confiscation, to the extent that such a requirement is consistent with the fundamental principles of their domestic law and with the nature of judicial and other proceedings.
- 9. The provisions of this article shall not be so construed as to prejudice the rights of bona fide third parties.
- 10. Nothing contained in this article shall affect the principle that the measures to which it refers shall be defined and implemented in accordance with and subject to the provisions of the domestic law of a State Party.

Protection of witnesses, experts and victims

1. Each State Party shall take appropriate measures in accordance with its domestic legal system and within its

means to provide effective protection from potential retaliation or intimidation for witnesses and experts who give testimony concerning offences established in accordance with this Convention and, as appropriate, for their relatives and other persons close to them.

- 2. The measures envisaged in paragraph 1 of this article may include, inter alia, without prejudice to the rights of the defendant, including the right to due process:
 - (a) Establishing procedures for the physical protection of such persons, such as, to the extent necessary and feasible, relocating them and permitting, where appropriate, non-disclosure or limitations on the disclosure of information concerning the identity and whereabouts of such persons;
 - (b) Providing evidentiary rules to permit witnesses and experts to give testimony in a manner that ensures the safety of such persons, such as permitting testimony to be given through the use of communications technology such as video or other adequate means.
- 3. States Parties shall consider entering into agreements or arrangements with other States for the relocation of persons referred to in paragraph 1 of this article.
- 4. The provisions of this article shall also apply to victims insofar as they are witnesses.
- 5. Each State Party shall, subject to its domestic law, enable the views and concerns of victims to be presented and considered

at appropriate stages of criminal proceedings against offenders in a manner not prejudicial to the rights of the defence.

Article 33

Protection of reporting persons

Each State Party shall consider incorporating into its domestic legal system appropriate measures to provide protection against any unjustified treatment for any person who reports in good faith and on reasonable grounds to the competent authorities any facts concerning offences established in accordance with this Convention.

Article 34

Consequences of acts of corruption

With due regard to the rights of third parties acquired in good faith, each State Party shall take measures, in accordance with the fundamental principles of its domestic law, to address consequences of corruption. In this context, States Parties may consider corruption a relevant factor in legal proceedings to annul or rescind a contract, withdraw a concession or other similar instrument or take any other remedial action.

Article 35 Compensation for damage

Each State Party shall take such measures as may be necessary, in accordance with principles of its domestic law, to

ensure that entities or persons who have suffered damage as a result of an act of corruption have the right to initiate legal proceedings against those responsible for that damage in order to obtain compensation.

Article 36 Specialized authorities

Each State Party shall, in accordance with the fundamental principles of its legal system, ensure the existence of a body or bodies or persons specialized in combating corruption through law enforcement. Such body or bodies or persons shall be granted the necessary independence, in accordance with the fundamental principles of the legal system of the State Party, to be able to carry out their functions effectively and without any undue influence. Such persons or staff of such body or bodies should have the appropriate training and resources to carry out their tasks.

Article 37

Cooperation with law enforcement authorities

1. Each State Party shall take appropriate measures to encourage persons who participate or who have participated in the commission of an offence established in accordance with this Convention to supply information useful to competent authorities for investigative and evidentiary purposes and to provide factual, specific help to competent authorities that may

- contribute to depriving offenders of the proceeds of crime and to recovering such proceeds.
- 2. Each State Party shall consider providing for the possibility, in appropriate cases, of mitigating punishment of an accused person who provides substantial cooperation in the investigation or prosecution of an offence established in accordance with this Convention.
- 3. Each State Party shall consider providing for the possibility, in accordance with fundamental principles of its domestic law, of granting immunity from prosecution to a person who provides substantial cooperation in the investigation or prosecution of an offence established in accordance with this Convention.
- 4. Protection of such persons shall be, mutatis mutandis, as provided for in article 32 of this Convention.
- 5. Where a person referred to in paragraph 1 of this article located in one State Party can provide substantial cooperation to the competent authorities of another State Party, the States Parties consider entering concerned may into agreements arrangements. in accordance with their domestic law. concerning the potential provision by the other State Party of the treatment set forth in paragraphs 2 and 3 of this article.

Cooperation between national authorities

Each State Party shall take such measures as may be necessary to encourage, in accordance with its domestic law, cooperation between, on the one hand, its public authorities, as well as its public officials, and, on the other hand, its authorities responsible for investigating and prosecuting criminal offences. Such cooperation may include:

- (a) Informing the latter authorities, on their own initiative, where there are reasonable grounds to believe that any of the offences established in accordance with articles 15, 21 and 23 of this Convention has been committed; or
- (b) Providing, upon request, to the latter authorities all necessary information.

Article 39

Cooperation between national authorities and the private sector

1. Each State Party shall take such measures as may be necessary to encourage, in accordance with its domestic law, cooperation between national investigating and prosecuting authorities and entities of the private sector, in particular financial institutions, relating to matters involving the commission of offences established in accordance with this Convention.

 Each State Party shall consider encouraging its nationals and other persons with a habitual residence in its territory to report to the national investigating and prosecuting authorities the commission of an offence established in accordance with this Convention.

Article 40 Bank secrecy

Each State Party shall ensure that, in the case of domestic criminal investigations of offences established in accordance with this Convention, there are appropriate mechanisms available within its domestic legal system to overcome obstacles that may arise out of the application of bank secrecy laws.

Article 41 Criminal record

Each State Party may adopt such legislative or other measures as may be necessary to take into consideration, under such terms as and for the purpose that it deems appropriate, any previous conviction in another State of an alleged offender for the purpose of using such information in criminal proceedings relating to an offence established in accordance with this Convention.

Article 42 Jurisdiction

- 1. Each State Party shall adopt such measures as may be necessary to establish its jurisdiction over the offences established in accordance with this Convention when:
 - (a) The offence is committed in the territory of that State Party; or
 - (b) The offence is committed on board a vessel that is flying the flag of that State Party or an aircraft that is registered under the laws of that State Party at the time that the offence is committed.
- 2. Subject to article 4 of this Convention, a State Party may also establish its jurisdiction over any such offence when:
 - (a) The offence is committed against a national of that State Party; or
 - (b) The offence is committed by a national of that State Party or a stateless person who has his or her habitual residence in its territory; or
 - (c) The offence is one of those established in accordance with article 23, paragraph 1 (b) (ii), of this Convention and is committed outside its territory with a view to the commission of an offence established in accordance with article 23, paragraph 1 (a) (i) or (ii) or (b) (i), of this Convention within its territory; or
 - (d) The offence is committed against the State Party.

- 3. For the purposes of article 44 of this Convention, each State Party shall take such measures as may be necessary to establish its jurisdiction over the offences established in accordance with this Convention when the alleged offender is present in its territory and it does not extradite such person solely on the ground that he or she is one of its nationals.
- 4. Each State Party may also take such measures as may be necessary to establish its jurisdiction over the offences established in accordance with this Convention when the alleged offender is present in its territory and it does not extradite him or her.
- 5. If a State Party exercising its jurisdiction under paragraph 1 or 2 of this article has been notified, or has otherwise learned, that any other States Parties are conducting an investigation, prosecution or judicial proceeding in respect of the same conduct, the competent authorities of those States Parties shall, as appropriate, consult one another with a view to coordinating their actions.
- 6. Without prejudice to norms of general international law, this Convention shall not exclude the exercise of any criminal jurisdiction established by a State Party in accordance with its domestic law.

Chapter IV International cooperation

Article 43

International cooperation

- 1. States Parties shall cooperate in criminal matters in accordance with articles 44 to 50 of this Convention. Where appropriate and consistent with their domestic legal system, States Parties shall consider assisting each other in investigations of and proceedings in civil and administrative matters relating to corruption.
- 2. In matters of international cooperation, whenever dual criminality is considered a requirement, it shall be deemed fulfilled irrespective of whether the laws of the requested State Party place the offence within the same category of offence or denominate the offence by the same terminology as the requesting State Party, if the conduct underlying the offence for which assistance is sought is a criminal offence under the laws of both States Parties.

Article 44 Extradition

1. This article shall apply to the offences established in accordance with this Convention where the person who is the subject of the request for extradition is present in the territory

- of the requested State Party, provided that the offence for which extradition is sought is punishable under the domestic law of both the requesting State Party and the requested State Party.
- 2. Notwithstanding the provisions of paragraph 1 of this article, a State Party whose law so permits may grant the extradition of a person for any of the offences covered by this Convention that are not punishable under its own domestic law.
- 3. If the request for extradition includes several separate offences, at least one of which is extraditable under this article and some of which are not extraditable by reason of their period of imprisonment but are related to offences established in accordance with this Convention, the requested State Party may apply this article also in respect of those offences.
- 4. Each of the offences to which this article applies shall be deemed to be included as an extraditable offence in any extradition treaty existing between States Parties. States Parties undertake to include such offences as extraditable offences in every extradition treaty to be concluded between them. A State Party whose law so permits, in case it uses this Convention as the basis for extradition, shall not consider any of the offences established in accordance with this Convention to be a political offence.
- 5. If a State Party that makes extradition conditional on the existence of a treaty receives a request for extradition from

- another State Party with which it has no extradition treaty, it may consider this Convention the legal basis for extradition in respect of any offence to which this article applies.
- 6. A State Party that makes extradition conditional on the existence of a treaty shall:
 - (a) At the time of deposit of its instrument of ratification, acceptance or approval of or accession to this Convention, inform the Secretary-General of the United Nations whether it will take this Convention as the legal basis for cooperation on extradition with other States Parties to this Convention; and
 - (b) If it does not take this Convention as the legal basis for cooperation on extradition, seek, where appropriate, to conclude treaties on extradition with other States Parties to this Convention in order to implement this article.
- 7. States Parties that do not make extradition conditional on the existence of a treaty shall recognize offences to which this article applies as extraditable offences between themselves.
- 8. Extradition shall be subject to the conditions provided for by the domestic law of the requested State Party or by applicable extradition treaties, including, inter alia, conditions in relation to the minimum penalty requirement for extradition and the grounds upon which the requested State Party may refuse extradition.

- 9. States Parties shall, subject to their domestic law, endeavour to expedite extradition procedures and to simplify evidentiary requirements relating thereto in respect of any offence to which this article applies.
- 10. Subject to the provisions of its domestic law and its extradition treaties, the requested State Party may, upon being satisfied that the circumstances so warrant and are urgent and at the request of the requesting State Party, take a person whose extradition is sought and who is present in its territory into custody or take other appropriate measures to ensure his or her presence at extradition proceedings.
- 11. A State Party in whose territory an alleged offender is found, if it does not extradite such person in respect of an offence to which this article applies solely on the ground that he or she is one of its nationals, shall, at the request of the State Party seeking extradition, be obliged to submit the case without undue delay to its competent authorities for the purpose of prosecution. Those authorities shall take their decision and conduct their proceedings in the same manner as in the case of any other offence of a grave nature under the domestic law of that State Party. The States Parties concerned shall cooperate with each other, in particular on procedural and evidentiary aspects, to ensure the efficiency of such prosecution.
- 12. Whenever a State Party is permitted under its domestic law to extradite or otherwise surrender one of its nationals only upon

the condition that the person will be returned to that State Party to serve the sentence imposed as a result of the trial or proceedings for which the extradition or surrender of the person was sought and that State Party and the State Party seeking the extradition of the person agree with this option and other terms that they may deem appropriate, such conditional extradition or surrender shall be sufficient to discharge the obligation set forth in paragraph 11 of this article.

- 13. If extradition, sought for purposes of enforcing a sentence, is refused because the person sought is a national of the requested State Party, the requested State Party shall, if its domestic law so permits and in conformity with the requirements of such law, upon application of the requesting State Party, consider the enforcement of the sentence imposed under the domestic law of the requesting State Party or the remainder thereof.
- 14. Any person regarding whom proceedings are being carried out in connection with any of the offences to which this article applies shall be guaranteed fair treatment at all stages of the proceedings, including enjoyment of all the rights and guarantees provided by the domestic law of the State Party in the territory of which that person is present.
- 15. Nothing in this Convention shall be interpreted as imposing an obligation to extradite if the requested State Party has substantial grounds for believing that the request has been made for the purpose of prosecuting or punishing a person on

account of that person's sex, race, religion, nationality, ethnic origin or political opinions or that compliance with the request would cause prejudice to that person's position for any one of these reasons.

- 16. States Parties may not refuse a request for extradition on the sole ground that the offence is also considered to involve fiscal matters.
- 17. Before refusing extradition, the requested State Party shall, where appropriate, consult with the requesting State Party to provide it with ample opportunity to present its opinions and to provide information relevant to its allegation.
- 18. States Parties shall seek to conclude bilateral and multilateral agreements or arrangements to carry out or to enhance the effectiveness of extradition.

Article 45

Transfer of sentenced persons

States Parties may consider entering into bilateral or multilateral agreements or arrangements on the transfer to their territory of persons sentenced to imprisonment or other forms of deprivation of liberty for offences established in accordance with this Convention in order that they may complete their sentences there.

Mutual legal assistance

- 1. States Parties shall afford one another the widest measure of mutual legal assistance in investigations, prosecutions and judicial proceedings in relation to the offences covered by this Convention.
- 2. Mutual legal assistance shall be afforded to the fullest extent possible under relevant laws, treaties, agreements and arrangements of the requested State Party with respect to investigations, prosecutions and judicial proceedings in relation to the offences for which a legal person may be held liable in accordance with article 26 of this Convention in the requesting State Party.
- 3. Mutual legal assistance to be afforded in accordance with this article may be requested for any of the following purposes:
 - (a) Taking evidence or statements from persons;
 - (b) Effecting service of judicial documents;
 - (c) Executing searches and seizures, and freezing;
 - (d) Examining objects and sites;
 - (e) Providing information, evidentiary items and expert evaluations:
 - (f) Providing originals or certified copies of relevant documents and records, including government, bank, financial, corporate or business records;

- (g) Identifying or tracing proceeds of crime, property, instrumentalities or other things for evidentiary purposes;
- (h) Facilitating the voluntary appearance of persons in the requesting State Party;
- (i) Any other type of assistance that is not contrary to the domestic law of the requested State Party;
- (j) Identifying, freezing and tracing proceeds of crime in accordance with the provisions of chapter V of this Convention;
- (k) The recovery of assets, in accordance with the provisions of chapter V of this Convention.
- 4. Without prejudice to domestic law, the competent authorities of a State Party may, without prior request, transmit information relating to criminal matters to a competent authority in another State Party where they believe that such information could assist the authority in undertaking or successfully concluding inquiries and criminal proceedings or could result in a request formulated by the latter State Party pursuant to this Convention.
- 5. The transmission of information pursuant to paragraph 4 of this article shall be without prejudice to inquiries and criminal proceedings in the State of the competent authorities providing the information. The competent authorities receiving the information shall comply with a request that said information remain confidential, even temporarily, or with restrictions on

its use. However, this shall not prevent the receiving State Party from disclosing in its proceedings information that is exculpatory to an accused person. In such a case, the receiving State Party shall notify the transmitting State Party prior to the disclosure and, if so requested, consult with the transmitting State Party. If, in an exceptional case, advance notice is not possible, the receiving State Party shall inform the transmitting State Party of the disclosure without delay.

- 6. The provisions of this article shall not affect the obligations under any other treaty, bilateral or multilateral, that governs or will govern, in whole or in part, mutual legal assistance.
- 7. Paragraphs 9 to 29 of this article shall apply to requests made pursuant to this article if the States Parties in question are not bound by a treaty of mutual legal assistance. If those States Parties are bound by such a treaty, the corresponding provisions of that treaty shall apply unless the States Parties agree to apply paragraphs 9 to 29 of this article in lieu thereof. States Parties are strongly encouraged to apply those paragraphs if they facilitate cooperation.
- 8. States Parties shall not decline to render mutual legal assistance pursuant to this article on the ground of bank secrecy.
- 9. (a) A requested State Party, in responding to a request for assistance pursuant to this article in the absence of dual criminality, shall take into account the purposes of this Convention, as set forth in article 1;

- (b) States Parties may decline to render assistance pursuant to this article on the ground of absence of dual criminality. However, a requested State Party shall, where consistent with the basic concepts of its legal system, render assistance that does not involve coercive action. Such assistance may be refused when requests involve matters of a deminimis nature or matters for which the cooperation or assistance sought is available under other provisions of this Convention;
- (c) Each State Party may consider adopting such measures as may be necessary to enable it to provide a wider scope of assistance pursuant to this article in the absence of dual criminality.
- 10. A person who is being detained or is serving a sentence in the territory of one State Party whose presence in another State Party is requested for purposes of identification, testimony or otherwise providing assistance in obtaining evidence for investigations, prosecutions or judicial proceedings in relation to offences covered by this Convention may be transferred if the following conditions are met:
 - (a) The person freely gives his or her informed consent;
 - (b) The competent authorities of both States Parties agree, subject to such conditions as those States Parties may deem appropriate.
- 11. For the purposes of paragraph 10 of this article:

- (a) The State Party to which the person is transferred shall have the authority and obligation to keep the person transferred in custody, unless otherwise requested or authorized by the State Party from which the person was transferred;
- (b) The State Party to which the person is transferred shall without delay implement its obligation to return the person to the custody of the State Party from which the person was transferred as agreed beforehand, or as otherwise agreed, by the competent authorities of both States Parties;
- (c) The State Party to which the person is transferred shall not require the State Party from which the person was transferred to initiate extradition proceedings for the return of the person;
- (d) The person transferred shall receive credit for service of the sentence being served in the State from which he or she was transferred for time spent in the custody of the State Party to which he or she was transferred.
- 12. Unless the State Party from which a person is to be transferred in accordance with paragraphs 10 and 11 of this article so agrees, that person, whatever his or her nationality, shall not be prosecuted, detained, punished or subjected to any other restriction of his or her personal liberty in the territory of the State to which that person is transferred in respect of acts,

- omissions or convictions prior to his or her departure from the territory of the State from which he or she was transferred.
- 13. Each State Party shall designate a central authority that shall have the responsibility and power to receive requests for mutual legal assistance and either to execute them or to transmit them to the competent authorities for execution. Where a State Party has a special region or territory with a separate system of mutual legal assistance, it may designate a distinct central authority that shall have the same function for that region or territory. Central authorities shall ensure the speedy and proper execution or transmission of the requests received. Where the central authority transmits the request to a competent authority for execution, it shall encourage the speedy and proper execution of the request by the competent authority. The Secretary-General of the United Nations shall be notified of the central authority designated for this purpose at the time each State Party deposits its instrument of ratification, acceptance or approval of or accession to this Convention. Requests for mutual legal assistance and any communication related thereto shall be transmitted to the central authorities designated by the States Parties. This requirement shall be without prejudice to the right of a State Party to require that such requests and communications be addressed to it through diplomatic channels and, in urgent circumstances, where the

- States Parties agree, through the International Criminal Police Organization, if possible.
- 14. Requests shall be made in writing or, where possible, by any means capable of producing a written record, in a language acceptable to the requested State Party, under conditions allowing that State Party to establish authenticity. The Secretary-General of the United Nations shall be notified of the language or languages acceptable to each State Party at the time it deposits its instrument of ratification, acceptance or approval of or accession to this Convention. In urgent circumstances and where agreed by the States Parties, requests may be made orally but shall be confirmed in writing forthwith.
- 15. A request for mutual legal assistance shall contain:
 - (a) The identity of the authority making the request;
 - (b) The subject matter and nature of the investigation, prosecution or judicial proceeding to which the request relates and the name and functions of the authority conducting the investigation, prosecution or judicial proceeding;
 - (c) A summary of the relevant facts, except in relation to requests for the purpose of service of judicial documents;
 - (d) A description of the assistance sought and details of any particular procedure that the requesting State Party wishes to be followed;

- (e) Where possible, the identity, location and nationality of any person concerned; and
- (f) The purpose for which the evidence, information or action is sought.
- 16. The requested State Party may request additional information when it appears necessary for the execution of the request in accordance with its domestic law or when it can facilitate such execution.
- 17. A request shall be executed in accordance with the domestic law of the requested State Party and, to the extent not contrary to the domestic law of the requested State Party and where possible, in accordance with the procedures specified in the request.
- 18. Wherever possible and consistent with fundamental principles of domestic law, when an individual is in the territory of a State Party and has to be heard as a witness or expert by the judicial authorities of another State Party, the first State Party may, at the request of the other, permit the hearing to take place by video conference if it is not possible or desirable for the individual in question to appear in person in the territory of the requesting State Party. States Parties may agree that the hearing shall be conducted by a judicial authority of the requested State Party and attended by a judicial authority of the requested State Party.

- 19. The requesting State Party shall not transmit or use information or evidence furnished by the requested State Party for investigations, prosecutions or judicial proceedings other than those stated in the request without the prior consent of the requested State Party. Nothing in this paragraph shall prevent the requesting State Party from disclosing in its proceedings information or evidence that is exculpatory to an accused person. In the latter case, the requesting State Party shall notify the requested State Party prior to the disclosure and, if so requested, consult with the requested State Party. If, in an exceptional case, advance notice is not possible, the requesting State Party shall inform the requested State Party of the disclosure without delay.
- 20. The requesting State Party may require that the requested State Party keep confidential the fact and substance of the request, except to the extent necessary to execute the request. If the requested State Party cannot comply with the requirement of confidentiality, it shall promptly inform the requesting State Party.
- 21. Mutual legal assistance may be refused:
 - (a) If the request is not made in conformity with the provisions of this article;
 - (b) If the requested State Party considers that execution of the request is likely to prejudice its sovereignty, security, *ordre public* or other essential interests;

- (c) If the authorities of the requested State Party would be prohibited by its domestic law from carrying out the action requested with regard to any similar offence, had it been subject to investigation, prosecution or judicial proceedings under their own jurisdiction;
- (d) If it would be contrary to the legal system of the requested State Party relating to mutual legal assistance for the request to be granted.
- 22. States Parties may not refuse a request for mutual legal assistance on the sole ground that the offence is also considered to involve fiscal matters.
- 23. Reasons shall be given for any refusal of mutual legal assistance.
- 24. The requested State Party shall execute the request for mutual legal assistance as soon as possible and shall take as full account as possible of any deadlines suggested by the requesting State Party and for which reasons are given, preferably in the request. The requesting State Party may make reasonable requests for information on the status and progress of measures taken by the requested State Party to satisfy its request. The requested State Party shall respond to reasonable requests by the requesting State Party on the status, and progress in its handling, of the request. The requesting State Party shall promptly inform the requested State Party when the assistance sought is no longer required.

- 25. Mutual legal assistance may be postponed by the requested State Party on the ground that it interferes with an ongoing investigation, prosecution or judicial proceeding.
- 26. Before refusing a request pursuant to paragraph 21 of this article or postponing its execution pursuant to paragraph 25 of this article, the requested State Party shall consult with the requesting State Party to consider whether assistance may be granted subject to such terms and conditions as it deems necessary. If the requesting State Party accepts assistance subject to those conditions, it shall comply with the conditions.
- 27. Without prejudice to the application of paragraph 12 of this article, a witness, expert or other person who, at the request of the requesting State Party, consents to give evidence in a proceeding or to assist in an investigation, prosecution or judicial proceeding in the territory of the requesting State Party shall not be prosecuted, detained, punished or subjected to any other restriction of his or her personal liberty in that territory in respect of acts, omissions or convictions prior to his or her departure from the territory of the requested State Party. Such safe conduct shall cease when the witness, expert or other person having had, for a period of fifteen consecutive days or for any period agreed upon by the States Parties from the date on which he or she has been officially informed that his or her presence is no longer required by the judicial authorities, an opportunity of leaving, has nevertheless remained voluntarily

- in the territory of the requesting State Party or, having left it, has returned of his or her own free will.
- 28. The ordinary costs of executing a request shall be borne by the requested State Party, unless otherwise agreed by the States Parties concerned. If expenses of a substantial or extraordinary nature are or will be required to fulfill the request, the States Parties shall consult to determine the terms and conditions under which the request will be executed, as well as the manner in which the costs shall be borne.

29. The requested State Party:

- (a) Shall provide to the requesting State Party copies of government records, documents or information in its possession that under its domestic law are available to the general public;
- (b) May, at its discretion, provide to the requesting State Party in whole, in part or subject to such conditions as it deems appropriate, copies of any government records, documents or information in its possession that under its domestic law are not available to the general public.
- 30. States Parties shall consider, as may be necessary, the possibility of concluding bilateral or multilateral agreements or arrangements that would serve the purposes of, give practical effect to or enhance the provisions of this article.

Transfer of criminal proceedings

States Parties shall consider the possibility of transferring to one another proceedings for the prosecution of an offence established in accordance with this Convention in cases where such transfer is considered to be in the interests of the proper administration of justice, in particular in cases where several jurisdictions are involved, with a view to concentrating the prosecution.

Article 48

Law enforcement cooperation

- States Parties shall cooperate closely with one another, consistent with their respective domestic legal and administrative systems, to enhance the effectiveness of law enforcement action to combat the offences covered by this Convention. States Parties shall, in particular, take effective measures:
 - (a) To enhance and, where necessary, to establish channels of communication between their competent authorities, agencies and services in order to facilitate the secure and rapid exchange of information concerning all aspects of the offences covered by this Convention, including, if the States Parties concerned deem it appropriate, links with other criminal activities;

- (b) To cooperate with other States Parties in conducting inquiries with respect to offences covered by this Convention concerning:
- (i) The identity, whereabouts and activities of persons suspected of involvement in such offences or the location of other persons concerned;
- (ii) The movement of proceeds of crime or property derived from the commission of such offences;
- (iii)The movement of property, equipment or other instrumentalities used or intended for use in the commission of such offences;
- (c) To provide, where appropriate, necessary items or quantities of substances for analytical or investigative purposes;
- (d) To exchange, where appropriate, information with other States Parties concerning specific means and methods used to commit offences covered by this Convention, including the use of false identities, forged, altered or false documents and other means of concealing activities;
- (e) To facilitate effective coordination between their competent authorities, agencies and services and to promote the exchange of personnel and other experts, including, subject to bilateral agreements or arrangements between the States Parties concerned, the posting of liaison officers;

- (f) To exchange information and coordinate administrative and other measures taken as appropriate for the purpose of early identification of the offences covered by this Convention.
- 2. With a view to giving effect to this Convention, States Parties shall consider entering into bilateral or multilateral agreements or arrangements on direct cooperation between their law agencies such agreements enforcement and, where arrangements already exist, amending them. In the absence of such agreements or arrangements between the States Parties concerned, the States Parties may consider this Convention to be the basis for mutual law enforcement cooperation in respect of the offences covered by this Convention. Whenever appropriate, States Parties shall make full use of agreements or arrangements, including international or regional organizations, to enhance the cooperation between their law enforcement agencies.
- 3. States Parties shall endeavour to cooperate within their means to respond to offences covered by this Convention committed through the use of modern technology.

Article 49 Joint investigations

States Parties shall consider concluding bilateral or multilateral agreements or arrangements whereby, in relation to matters that are the subject of investigations, prosecutions or judicial proceedings in one or more States, the competent authorities concerned may establish joint investigative bodies. In the absence of such agreements or arrangements, joint investigations may be undertaken by agreement on a case-by-case basis. The States Parties involved shall ensure that the sovereignty of the State Party in whose territory such investigation is to take place is fully respected.

Article 50

Special investigative techniques

- 1. In order to combat corruption effectively, each State Party shall, to the extent permitted by the basic principles of its domestic legal system and in accordance with the conditions prescribed by its domestic law, take such measures as may be necessary, within its means, to allow for the appropriate use by its competent authorities of controlled delivery and, where it deems appropriate, other special investigative techniques, such as electronic or other forms of surveillance and undercover operations, within its territory, and to allow for the admissibility in court of evidence derived therefrom.
- 2. For the purpose of investigating the offences covered by this Convention, States Parties are encouraged to conclude, when necessary, appropriate bilateral or multilateral agreements or arrangements for using such special investigative techniques in the context of cooperation at the international level. Such agreements or arrangements shall be concluded and

- implemented in full compliance with the principle of sovereign equality of States and shall be carried out strictly in accordance with the terms of those agreements or arrangements.
- 3. In the absence of an agreement or arrangement as set forth in paragraph 2 of this article, decisions to use such special investigative techniques at the international level shall be made on a case-by-case basis and may, when necessary, take into consideration financial arrangements and understandings with respect to the exercise of jurisdiction by the States Parties concerned.
- 4. Decisions to use controlled delivery at the international level may, with the consent of the States Parties concerned, include methods such as intercepting and allowing the goods or funds to continue intact or be removed or replaced in whole or in part.

Chapter V Asset recovery

Article 51 General provision

The return of assets pursuant to this chapter is a fundamental principle of this Convention, and States Parties shall afford one another the widest measure of cooperation and assistance in this regard.

Article 52

Prevention and detection of transfers of proceeds of crime

1. Without prejudice to article 14 of this Convention, each State Party shall take such measures as may be necessary, in accordance with its domestic law, to require financial institutions within its jurisdiction to verify the identity of customers, to take reasonable steps to determine the identity of beneficial owners of funds deposited into high-value accounts and to conduct enhanced scrutiny of accounts sought or maintained by or on behalf of individuals who are, or have been, entrusted with prominent public functions and their family members and close associates. Such enhanced scrutiny shall be reasonably designed to detect suspicious transactions for the purpose of reporting to competent authorities and should not be so construed as to discourage or prohibit

- financial institutions from doing business with any legitimate customer.
- 2. In order to facilitate implementation of the measures provided for in paragraph 1 of this article, each State Party, in accordance with its domestic law and inspired by relevant initiatives of regional, interregional and multilateral organizations against money-laundering, shall:
 - (a) Issue advisories regarding the types of natural or legal person to whose accounts financial institutions within its jurisdiction will be expected to apply enhanced scrutiny, the types of accounts and transactions to which to pay particular attention and appropriate account-opening, maintenance and recordkeeping measures to take concerning such accounts; and
 - (b) Where appropriate, notify financial institutions within its jurisdiction, at the request of another State Party or on its own initiative, of the identity of particular natural or legal persons to whose accounts such institutions will be expected to apply enhanced scrutiny, in addition to those whom the financial institutions may otherwise identify.
- 3. In the context of paragraph 2 (a) of this article, each State Party shall implement measures to ensure that its financial institutions maintain adequate records, over an appropriate period of time, of accounts and transactions involving the persons mentioned in paragraph 1 of this article, which should,

- as a minimum, contain information relating to the identity of the customer as well as, as far as possible, of the beneficial owner.
- 4. With the aim of preventing and detecting transfers of proceeds of offences established in accordance with this Convention, each State Party shall implement appropriate and effective measures to prevent, with the help of its regulatory and oversight bodies, the establishment of banks that have no physical presence and that are not affiliated with a regulated financial group. Moreover, States Parties may consider requiring their financial institutions to refuse to enter into or continue a correspondent banking relationship with such institutions and to guard against establishing relations with foreign financial institutions that permit their accounts to be used by banks that have no physical presence and that are not affiliated with a regulated financial group.
- 5. Each State Party shall consider establishing, in accordance with its domestic law, effective financial disclosure systems for appropriate public officials and shall provide for appropriate sanctions for non-compliance. Each State Party shall also consider taking such measures as may be necessary to permit its competent authorities to share that information with the competent authorities in other States Parties when necessary to investigate, claim and recover proceeds of offences established in accordance with this Convention.

6. Each State Party shall consider taking such measures as may be necessary, in accordance with its domestic law, to require appropriate public officials having an interest in or signature or other authority over a financial account in a foreign country to report that relationship to appropriate authorities and to maintain appropriate records related to such accounts. Such measures shall also provide for appropriate sanctions for non-compliance.

Article 53

Measures for direct recovery of property

Each State Party shall, in accordance with its domestic law:

- (a) Take such measures as may be necessary to permit another State Party to initiate civil action in its courts to establish title to or ownership of property acquired through the commission of an offence established in accordance with this Convention;
- (b) Take such measures as may be necessary to permit its courts to order those who have committed offences established in accordance with this Convention to pay compensation or damages to another State Party that has been harmed by such offences: and
- (c) Take such measures as may be necessary to permit its courts or competent authorities, when having to decide on confiscation, to recognize another State Party's claim as a legitimate owner of property acquired through the commission of an offence established in accordance with this Convention.

Mechanisms for recovery of property through international cooperation in confiscation

- 1. Each State Party, in order to provide mutual legal assistance pursuant to article 55 of this Convention with respect to property acquired through or involved in the commission of an offence established in accordance with this Convention, shall, in accordance with its domestic law:
 - (a) Take such measures as may be necessary to permit its competent authorities to give effect to an order of confiscation issued by a court of another State Party;
 - (b) Take such measures as may be necessary to permit its competent authorities, where they have jurisdiction, to order the confiscation of such property of foreign origin by adjudication of an offence of money-laundering or such other offence as may be within its jurisdiction or by other procedures authorized under its domestic law; and
 - (c) Consider taking such measures as may be necessary to allow confiscation of such property without a criminal conviction in cases in which the offender cannot be prosecuted by reason of death, flight or absence or in other appropriate cases.
- 2. Each State Party, in order to provide mutual legal assistance upon a request made pursuant to paragraph 2 of article 55 of this Convention, shall, in accordance with its domestic law:

- (a) Take such measures as may be necessary to permit its competent authorities to freeze or seize property upon a freezing or seizure order issued by a court or competent authority of a requesting State Party that provides a reasonable basis for the requested State Party to believe that there are sufficient grounds for taking such actions and that the property would eventually be subject to an order of confiscation for purposes of paragraph 1 (a) of this article;
- (b) Take such measures as may be necessary to permit its competent authorities to freeze or seize property upon a request that provides a reasonable basis for the requested State Party to believe that there are sufficient grounds for taking such actions and that the property would eventually be subject to an order of confiscation for purposes of paragraph 1 (a) of this article; and
- (c) Consider taking additional measures to permit its competent authorities to preserve property for confiscation, such as on the basis of a foreign arrest or criminal charge related to the acquisition of such property.

International cooperation for purposes of confiscation

1. A State Party that has received a request from another State Party having jurisdiction over an offence established in accordance with this Convention for confiscation of proceeds

- of crime, property, equipment or other instrumentalities referred to in article 31, paragraph 1, of this Convention situated in its territory shall, to the greatest extent possible within its domestic legal system:
- (a) Submit the request to its competent authorities for the purpose of obtaining an order of confiscation and, if such an order is granted, give effect to it; or
- (b) Submit to its competent authorities, with a view to giving effect to it to the extent requested, an order of confiscation issued by a court in the territory of the requesting State Party in accordance with articles 31, paragraph 1, and 54, paragraph 1 (a), of this Convention insofar as it relates to proceeds of crime, property, equipment or other instrumentalities referred to in article 31, paragraph 1, situated in the territory of the requested State Party.
- 2. Following a request made by another State Party having jurisdiction over an offence established in accordance with this Convention, the requested State Party shall take measures to identify, trace and freeze or seize proceeds of crime, property, equipment or other instrumentalities referred to in article 31, paragraph 1, of this Convention for the purpose of eventual confiscation to be ordered either by the requesting State Party or, pursuant to a request under paragraph 1 of this article, by the requested State Party.

- 3. The provisions of article 46 of this Convention are applicable, mutatis mutandis, to this article. In addition to the information specified in article 46, paragraph 15, requests made pursuant to this article shall contain:
 - (a) In the case of a request pertaining to paragraph 1 (a) of this article, a description of the property to be confiscated, including, to the extent possible, the location and, where relevant, the estimated value of the property and a statement of the facts relied upon by the requesting State Party sufficient to enable the requested State Party to seek the order under its domestic law;
 - (b) In the case of a request pertaining to paragraph 1 (b) of this article, a legally admissible copy of an order of confiscation upon which the request is based issued by the requesting State Party, a statement of the facts and information as to the extent to which execution of the order is requested, a statement specifying the measures taken by the requesting State Party to provide adequate notification to bona fide third parties and to ensure due process and a statement that the confiscation order is final:
 - (c) In the case of a request pertaining to paragraph 2 of this article, a statement of the facts relied upon by the requesting State Party and a description of the actions requested and, where available, a legally admissible copy of an order on which the request is based.

- 4. The decisions or actions provided for in paragraphs 1 and 2 of this article shall be taken by the requested State Party in accordance with and subject to the provisions of its domestic law and its procedural rules or any bilateral or multilateral agreement or arrangement to which it may be bound in relation to the requesting St ate Party.
- 5. Each State Party shall furnish copies of its laws and regulations that give effect to this article and of any subsequent changes to such laws and regulations or a description thereof to the Secretary-General of the United Nations.
- 6. If a State Party elects to make the taking of the measures referred to in paragraphs 1 and 2 of this article conditional on the existence of a relevant treaty, that State Party shall consider this Convention the necessary and sufficient treaty basis.
- 7. Cooperation under this article may also be refused or provisional measures lifted if the requested State Party does not receive sufficient and timely evidence or if the property is of a *deminimis* value.
- 8. Before lifting any provisional measure taken pursuant to this article, the requested State Party shall, wherever possible, give the requesting State Party an opportunity to present its reasons in favour of continuing the measure.
- 9. The provisions of this article shall not be construed as prejudicing the rights of bona fide third parties.

Article 56 Special cooperation

Without prejudice to its domestic law, each State Party shall endeavour to take measures to permit it to forward, without prejudice to its own investigations, prosecutions or judicial proceedings, information on proceeds of offences established in accordance with this Convention to another State Party without prior request, when it considers that the disclosure of such information might assist the receiving State Party in initiating or carrying out investigations, prosecutions or judicial proceedings or might lead to a request by that State Party under this chapter of the Convention.

Article 57 Return and disposal of assets

1. Property confiscated by a State Party pursuant to artic le 31 or 55 of this Convention shall be disposed of, including by return to its prior legitimate owners, pursuant to paragraph 3 of this article, by that State Party in accordance with the provisions of

this Convention and its domestic law.

2. Each State Party shall adopt such legislative and other measures, in accordance with the fundamental principles of its domestic law, as may be necessary to enable its competent authorities to return confiscated property, when acting on the request made by another St ate Party, in accordance with this

- Convention, taking into account the rights of bona fide third parties.
- 3. In accordance with articles 46 and 55 of this Convention and paragraphs 1 and 2 of this article, the requested State Party shall:
 - (a) In the case of embezzlement of public funds or of laundering of embezzled public funds as referred to in articles 17 and 23 of this Convention, when confiscation was executed in accordance with article 55 and on the basis of a final judgement in the requesting State Party, a requirement that can be waived by the requested State Party, return the confiscated property to the requesting State Party;
 - (b) In the case of proceeds of any other offence covered by this Convention, when the confiscation was executed in accordance with article 55 of this Convention and on the basis of a final judgement in the requesting State Party, a requirement that can be waived by the requested State Party, return the confiscated property to the requesting State Party, when the requesting State Party reasonably establishes its prior ownership of such confiscated property to the requested State Party or when the requested State Party recognizes damage to the requesting State Party as a basis for returning the confiscated property;

- (c) In all other cases, give priority consideration to returning confiscated property to the requesting State Party, returning such property to its prior legitimate owners or compensating the victims of the crime.
- 4. Where appropriate, unless States Parties decide otherwise, the requested State Party may deduct reasonable expenses incurred in investigations, prosecutions or judicial proceedings leading to the return or disposition of confiscated property pursuant to this article.
- 5. Where appropriate, States Parties may also give special consideration to concluding agreements or mutually acceptable arrangements, on a case-by-case basis, for the final disposal of confiscated property.

Financial intelligence unit

States Parties shall cooperate with one another for the purpose of preventing and combating the transfer of proceeds of offences established in accordance with this Convention and of promoting ways and means of recovering such proceeds and, to that end, shall consider establishing a financial intelligence unit to be responsible for receiving, analysing and disseminating to the competent authorities reports of suspicious financial transactions.

Article 59 Bilateral and multilateral agreements and arrangements

States Parties shall consider concluding bilateral or multilateral agreements or arrangements to enhance the effectiveness of international cooperation undertaken pursuant to this chapter of the Convention.

Chapter VI

Technical assistance and information exchange

Article 60

Training and technical assistance

- 1. Each State Party shall, to the extent necessary, initiate, develop or improve specific training programmes for its personnel responsible for preventing and combating corruption. Such training programmes could deal, inter alia, with the following areas:
 - (a) Effective measures to prevent, detect, investigate, punish and control corruption, including the use of evidence-gathering and investigative methods;
 - (b) Building capacity in the development and planning of strategic anti-corruption policy;
 - (c) Training competent authorities in the preparation of requests for mutual legal assistance that meet the requirements of this Convention;
 - (d) Evaluation and strengthening of institutions, public service management and the management of public finances, including public procurement, and the private sector;
 - (e) Preventing and combating the transfer of proceeds of offences established in accordance with this Convention and recovering such proceeds;

- (f) Detecting and freezing of the transfer of proceeds of offences established in accordance with this Convention;
- (g) Surveillance of the movement of proceeds of offences established in accordance with this Convention and of the methods used to transfer, conceal or disguise such proceeds;
- (h) Appropriate and efficient legal and administrative mechanisms and methods for facilitating the return of proceeds of offences established in accordance with this Convention;
- (i) Methods used in protecting victims and witnesses who cooperate with judicial authorities; and
- (j) Training in national and international regulations and in languages.
- 2. States Parties shall, according to their capacity, consider affording one another the widest measure of technical assistance, especially for the benefit of developing countries, in their respective plans and programmes to combat corruption, including material support and training in the areas referred to in paragraph 1 of this article, and training and assistance and the mutual exchange of relevant experience and specialized knowledge, which will facilitate international cooperation between States Parties in the areas of extradition and mutual legal assistance.

- 3. States Parties shall strengthen, to the extent necessary, efforts to maximize operational and training activities in international and regional organizations and in the framework of relevant bilateral and multilateral agreements or arrangements.
- 4. States Parties shall consider assisting one another, upon request, in conducting evaluations, studies and research relating to the types, causes, effects and costs of corruption in their respective countries, with a view to developing, with the participation of competent authorities and society, strategies and action plans to combat corruption.
- 5. In order to facilitate the recovery of proceeds of offences established in accordance with this Convention, States Parties may cooperate in providing each other with the names of experts who could assist in achieving that objective.
- 6. States Parties shall consider using subregional, regional and international conferences and seminars to promote cooperation and technical assistance and to stimulate discussion on problems of mutual concern, including the special problems and needs of developing countries and countries with economies in transition.
- 7. States Parties shall consider establishing voluntary mechanisms with a view to contributing financially to the efforts of developing countries and countries with economies in transition to apply this Convention through technical assistance programmes and projects.

8. Each State Party shall consider making voluntary contributions to the United Nations Office on Drugs and Crime for the purpose of fostering, through the Office, programmes and projects in developing countries with a view to implementing this Convention.

Article 61

Collection, exchange and analysis of information on corruption

- 1. Each State Party shall consider analysing, in consultation with experts, trends in corruption in its territory, as well as the circumstances in which corruption offences are committed.
- 2. States Parties shall consider developing and sharing with each other and through international and regional organizations statistics, analytical expertise concerning corruption and information with a view to developing, insofar as possible, common definitions, standards and methodologies, as well as information on best practices to prevent and combat corruption.
- 3. Each State Party shall consider monitoring its policies and actual measures to combat corruption and making assessments of their effectiveness and efficiency.

Other measures: implementation of the Convention through economic development and technical assistance

- 1. States Parties shall take measures conducive to the optimal implementation of this Convention to the extent possible, through international cooperation, taking into account the negative effects of corruption on society in general, in particular on sustainable development.
- 2. States Parties shall make concrete efforts to the extent possible and in coordination with each other, as well as with international and regional organizations:
 - (a) To enhance their cooperation at various levels with developing countries, with a view to strengthening the capacity of the latter to prevent and combat corruption;
 - (b) To enhance financial and material assistance to support the efforts of developing countries to prevent and fight corruption effectively and to help them implement this Convention successfully;
 - (c) To provide technical assistance to developing countries and countries with economies in transition to assist them in meeting their needs for the implementation of this Convention. To that end, States Parties shall endeavour to make adequate and regular voluntary contributions to an account specifically designated for that purpose in a United

Nations funding mechanism. States Parties may also give special consideration, in accordance with their domestic law and the provisions of this Convention, to contributing to that account a percentage of the money or of the corresponding value of proceeds of crime or property confiscated in accordance with the provisions of this Convention:

- (d) To encourage and persuade other States and financial institutions as appropriate to join them in efforts in accordance with this article, in particular by providing more training programmes and modern equipment to developing countries in order to assist them in achieving the objectives of this Convention.
- 3. To the extent possible, these measures shall be without prejudice to existing foreign assistance commitments or to other financial cooperation arrangements at the bilateral, regional or international level.
- 4. States Parties may conclude bilateral or multilateral agreements or arrangements on material and logistical assistance, taking into consideration the financial arrangements necessary for the means of international cooperation provided for by this Convention to be effective and for the prevention, detection and control of corruption.

Chapter VII

Mechanisms for implementation

Article 63

Conference of the States Parties to the Convention

- 1. A Conference of the States Parties to the Convention is hereby established to improve the capacity of and cooperation between States Parties to achieve the objectives set forth in this Convention and to promote and review its implementation.
- 2. The Secretary-General of the United Nations shall convene the Conference of the States Parties not later than one year following the entry into force of this Convention. Thereafter, regular meetings of the Conference of the States Parties shall be held in accordance with the rules of procedure adopted by the Conference.
- 3. The Conference of the States Parties shall adopt rules of procedure and rules governing the functioning of the activities set forth in this article, including rules concerning the admission and participation of observers, and the payment of expenses incurred in carrying out those activities.
- 4. The Conference of the States Parties shall agree upon activities, procedures and methods of work to achieve the objectives set forth in paragraph 1 of this article, including:

- (a) Facilitating activities by States Parties under articles 60 and 62 and chapters II to V of this Convention, including by encouraging the mobilization of voluntary contributions;
- (b) Facilitating the exchange of information among States Parties on patterns and trends in corruption and on successful practices for preventing and combating it and for the return of proceeds of crime, through, inter alia, the publication of relevant information as mentioned in this article;
- (c) Cooperating with relevant international and regional organizations and mechanisms and non-governmental organizations;
- (d) Making appropriate use of relevant information produced by other international and regional mechanisms for combating and preventing corruption in order to avoid unnecessary duplication of work;
- (e) Reviewing periodically the implementation of this Convention by its States Parties;
- (f) Making recommendations to improve this Convention and its implementation;
- (g) Taking note of the technical assistance requirements of States Parties with regard to the implementation of this Convention and recommending any action it may deem necessary in that respect.

- 5. For the purpose of paragraph 4 of this article, the Conference of the States Parties shall acquire the necessary knowledge of the measures taken by States Parties in implementing this Convention and the difficulties encountered by them in doing so through information provided by them and through such supplemental review mechanisms as may be established by the Conference of the States Parties.
- 6. Each State Party shall provide the Conference of the States Parties with information on its programmes, plans and practices, as well as on legislative and administrative measures to implement this Convention, as required by the Conference of the States Parties. The Conference of the States Parties shall examine the most effective way of receiving and acting upon information, including, inter alia, information received from States Parties and from competent international organizations. Inputs received from relevant nongovernmental organizations duly accredited in accordance with procedures to be decided upon by the Conference of the States Parties may also be considered.
- 7. Pursuant to paragraphs 4 to 6 of this article, the Conference of the States Parties shall establish, if it deems it necessary, any appropriate mechanism or body to assist in the effective implementation of the Convention.

Article 64 Secretariat

- 1. The Secretary-General of the United Nations shall provide the necessary secretariat services to the Conference of the States Parties to the Convention.
- 2. The secretariat shall:
 - (a) Assist the Conference of the States Parties in carrying out the activities set forth in article 63 of this Convention and make arrangements and provide the necessary services for the sessions of the Conference of the States Parties;
 - (b) Upon request, assist States Parties in providing information to the Conference of the States Parties as envisaged in article 63, paragraphs 5 and 6, of this Convention; and
 - (c) Ensure the necessary coordination with the secretariats of relevant international and regional organizations.

Chapter VIII Final provisions

Article 65

Implementation of the Convention

- 1. Each State Party shall take the necessary measures, including legislative and administrative measures, in accordance with fundamental principles of its domestic law, to ensure the implementation of its obligations under this Convention.
- 2. Each State Party may adopt more strict or severe measures than those provided for by this Convention for preventing and combating corruption.

Article 66

Settlement of disputes

- 1. States Parties shall endeavour to settle disputes concerning the interpretation or application of this Convention through negotiation.
- 2. Any dispute between two or more States Parties concerning the interpretation or application of this Convention that cannot be settled through negotiation within a reasonable time shall, at the request of one of those States Parties, be submitted to arbitration. If, six months after the date of the request for arbitration, those States Parties are unable to agree on the organization of the arbitration, any one of those States Parties

- may refer the dispute to the International Court of Justice by request in accordance with the Statute of the Court.
- 3. Each State Party may, at the time of signature, ratification, acceptance or approval of or accession to this Convention, declare that it does not consider itself bound by paragraph 2 of this article. The other States Parties shall not be bound by paragraph 2 of this article with respect to any State Party that has made such a reservation.
- 4. Any State Party that has made a reservation in accordance with paragraph 3 of this article may at any time withdraw that reservation by notification to the Secretary-General of the United Nations.

Article 67 Signature, ratification, acceptance, approval and accession

- This Convention shall be open to all States for signature from 9 to 11 December 2003 in Merida, Mexico, and thereafter at United Nations Headquarters in New York until 9 December 2005.
- 2. This Convention shall also be open for signature by regional economic integration organizations provided that at least one member State of such organization has signed this Convention in accordance with paragraph 1 of this article.
- 3. This Convention is subject to ratification, acceptance or approval. Instruments of ratification, acceptance or approval

shall be deposited with the Secretary-General of the United Nations. A regional economic integration organization may deposit its instrument of ratification, acceptance or approval if at least one of its member States has done likewise. In that instrument of ratification, acceptance or approval, such organization shall declare the extent of its competence with respect to the matters governed by this Convention. Such organization shall also inform the depositary of any relevant modification in the extent of its competence.

4. This Convention is open for accession by any State or any regional economic integration organization of which at least one member State is a Party to this Convention. Instruments of accession shall be deposited with the Secretary-General of the United Nations. At the time of its accession, a regional economic integration organization shall declare the extent of its competence with respect to matters governed by this Convention. Such organization shall also inform the depositary of any relevant modification in the extent of its competence.

Article 68 Entry into force

1. This Convention shall enter into force on the ninetieth day after the date of deposit of the thirtieth instrument of ratification, acceptance, approval or accession. For the purpose of this paragraph, any instrument deposited by a regional economic

- integration organization shall not be counted as additional to those deposited by member States of such organization.
- 2. For each State or regional economic integration organization ratifying, accepting, approving or acceding to this Convention after the deposit of the thirtieth instrument of such action, this Convention shall enter into force on the thirtieth day after the date of deposit by such State or organization of the relevant instrument or on the date this Convention enters into force pursuant to paragraph 1 of this article, whichever is later.

Amendment

1. After the expiry of five years from the entry into force of this Convention, a State Party may propose an amendment and transmit it to the Secretary-General of the United Nations, who shall thereupon communicate the proposed amendment to the States Parties and to the Conference of the States Parties to the Convention for the purpose of considering and deciding on the proposal. The Conference of the States Parties shall make every effort to achieve consensus on each amendment. If all efforts at consensus have been exhausted and no agreement has been reached, the amendment shall, as a last resort, require for its adoption a two-thirds majority vote of the States Parties present and voting at the meeting of the Conference of the States Parties.

- 2. Regional economic integration organizations, in matters within their competence, shall exercise their right to vote under this article with a number of votes equal to the number of their member States that are Parties to this Convention. Such organizations shall not exercise their right to vote if their member States exercise theirs and vice versa.
- 3. An amendment adopted in accordance with paragraph 1 of this article is subject to ratification, acceptance or approval by States Parties.
- 4. An amendment adopted in accordance with paragraph 1 of this article shall enter into force in respect of a State Party ninety days after the date of the deposit with the Secretary-General of the United Nations of an instrument of ratification, acceptance or approval of such amendment.
- 5. When an amendment enters into force, it shall be binding on those States Parties which have expressed their consent to be bound by it. Other States Parties shall still be bound by the provisions of this Convention and any earlier amendments that they have ratified, accepted or approved.

Article 70 Denunciation

1. A State Party may denounce this Convention by written notification to the Secretary-General of the United Nations.

- Such denunciation shall become effective one year after the date of receipt of the notification by the Secretary-General.
- A regional economic integration organization shall cease to be a Party to this Convention when all of its member States have denounced it.

Depositary and languages

- 1. The Secretary-General of the United Nations is designated depositary of this Convention.
- 2. The original of this Convention, of which the Arabic, Chinese, English, French, Russian and Spanish texts are equally authentic, shall be deposited with the Secretary-General of the United Nations.

IN WITNESS WHEREOF, the undersigned plenipotentiaries, being duly authorized thereto by their respective Governments, have signed this Convention.