

?]hU!7Ua d. ¸ VYfbUW\hYb]b ¬i fhYb i bX 5VYbhYi Yf]b XYf BUhi f°

?]hU'Di ghYV'i a Y'[cYg'WUa d]b[']b'F ÒbgU\``'@YUfb'UVci h'h\Y]bbcj Uh]j Y'gc'i h]cb'Zcf'fY'cWUh]b['h\Y'XUmWUfY'Xi f]b[fYbcj Uh]cbg"'*:]b'h\Y'cdYb'\ci gY'cb'5i [i gh'' %gh"

?]hU'DighYV`iaY'[cYg'WUad]b['p'@cWU`8]fYWh

H\Y'?]hU'DighYV`ia YžcdYfUhYX'Vm'GYbh]f]g'Zfca '<U`jYfž']g dfYdUf]b['Zcf'U'ib]eiY'hYb!kYY_'WUad]b['YldYf]YbWY'ghUfh]b['cb *\m'&-h\']b'F ObgU\`"'*\fhgž'WUfUjUbgž'WcbhU]bYfgž'WcbghfiWh]cb ZYbWYgž'UbX'U'?]hU'g\ihn`Y'k]``'WfYUhY'h\Y'gYhh]b['Zcf'h\]g'YlW]h]b[UXjYbhifY"

Hc Ybgi fY 'Wcbh]bi ci g'Wk]`XWUfY 'Zcf'h\Y'() 'Wk]`XfYb 'Xi f]b['h\Y Wcbghfi Wh]cb'd\UgYž'GYbh]f]g'Yl d`cfYX'j Uf]ci g'cdh]cbg'UbX'\Y`X X]gW' gg]cbg":]bX]b['U'gi]hUV`Y'hYa dcfUfm'`cWUh]cb'dfcj YX'hc'VY U'Wk U``Yb[Yž'Vi h'U'gc`i h]cb'k Ug'Yj Ybhi U``m'Zci bX"

± : YVfi Ufmž'U'g]hY'j]g]h'k Ug'WcbXi WhYX'Uh'h\Y'GYfj Uh]i ggW\i `Y']b F ÒbgU\`"'7c``UVcfUh]b['k]h\'h\Y'gW\cc``UXa]b]ghfUh]cb'UbX'h\Y W]hm'cZ'?]YfgdYž'GYbh]f]g'YI d`cfYX'h\Y'dcgg]V]`]hm'cZi g]b['dUfhg'cZh\Y'Y`Ya YbhUfm'gW\cc``Ug'U'hYa dcfUfm'\ca Y'Zcf'?]hU Di ghYV`i a Y"'≠h'VYWJa Y'WYUf'ei]W_`m'h\Uh'gi W\'Ub'UffUb[Ya Ybh

k ci `X 'dcgY 'g][b]Z]WUbh'W\ U``Yb[Yg'Zcf'U``'dUfh]Yg']bj c`j YX"

FYWc[b]n]b['h\Y']a dcfhUbWY'cZ'bUhi fY']b'W\]`X'XYj Y`cda Ybhž'?]hUX]fYWhcf'MJcbbY'K]Y`Yf!?c\`'\][\`][\hYX'h\Y'i b]ei Y'YXi WUh]cbU`cddcfhi b]h]Yg'h\Uh'h\Y'?]hU'7Ua d'cZZYfg"': fca 'YWc`c[]WU`YXi WUh]cb'hc'gYbgcfm'Yl dYf]YbWYg'UbX'i bZcf[YhhUV`Y'a Ya cf]Ygžh\Y'WUa d]b['Yl dYf]YbWY'dfca]gYg'hc'VY'Ybf]W\]b['Zcf'h\Y'&'hc*!mYUf!c`X'W\]`XfYb"

 $Cb^* = m^* - h \cdot z^* h \cdot y^* mc^* h \cdot WUa dg]hY^* k]^* VY^* hfUbgZcfa YX^*]bhc^* U gYW^* fY^* gd UWY^* k]h \cdot YggYbh]U^* Ua Yb]h]Yg^*]_Y^* Y^* YWhf]W]hmz^* k UhYfz^* g \ Y^* hYfz^* Ub X^* hc]^* Yhg^* : c^* ck]b[^*]bgd YWh]cb^* Vm^* h \ Y^* Wc^* b hm^* mc^* h \ k Y^* ZUfY^* cZZ]WYz^* h \ Y^* cWUh]cb^* \ Ug^* VYYb^* cZZ]W]U^* m^* Uddfcj YX^* Zcf^* h \ Y WUa d"$

 $\label{thm:czh} Hc Ybgi fY h Y gUZY hm c Z h Y W] X fY b Ub X d fY j Ybh h f UZZ] W Wc b [Ygh] c b c b h Y b Uffck fc UX `YUX] b [hc h Y g] h Y ž h Y fc UX k] ` VY Wc gY X h c j Y] WY g ? f] gh] Ub < Ua a ž h Y GY b h] f] g 7 9 C ž YI d f Y gg Y X \] g Y I W] h Ya Ybh Zc f h Y i d Wc a] b [?] h U 7 Ua d Ub X Ya d \ Ug] n Y X h Y Wc `` UV c f Uh] j Y Y ZZ c f h k] h \ h Y W h d c gg] V `Y "$

Hc []j Y 'Yj YfmcbY 'U '[`]a dgY 'c Z'h\Y '?]hU '7 Ua d 'Y I dYf]Yb WY ž'h\Y hY Ua 'Uh'?]hU 'Di ghY V`i a Y 'd`Ubg 'hc '\cgh'Ub 'C dYb '8 Um'cb '5i [i gh ' %gh'Zcf'U``]bhYfYghY X 'd Ufh]Yg 'hc 'j]g]h'Ub X 'Y I d`cfY 'h\Y 'WUa dg]hY "

B 5;

8YhU]`g

6 Ygi WX Yb 'G]Y i bg Ui Z 'b!U["XY