

: `i WX h'Ui g'GhfUi V]b[Yf'?`]b]_.'Dc`]nY] 'U[h'[YZÀ\f`]WXY'HÀhYf

J]Yf'[YZÀ\f`]WXY'GhfUZhÀhYf'Uig'Y]bYf'dgmWX]Uhf]gWXYb5bghU`h']b'B]YXYfVUmYfb'g]bX'bUWX'Y]bYf': `iWXh'UiZ'XYf'GdifXYf'Dc`]nY]"'?cbgYeiYbnYb'kYfXYb'[YZcfXYfh"

± B]YXYfVUmYfb gcf[hY]b J cfZU```Ui g'Y]bYf dgmWk]Uhf]gWkYb ?``]b]_
ZØf 5i ZfY[i b[i bX 6Ygcf[b]g"J]Yf A ÀbbYf g]bX Ui g'XYf
[YgWk`cggYbYb 9]bf]Wk hi b[i]b GhfUi V]b[i[YZc\YbžbUWkXYa ig]Y
Y]bYa A]hUfVY]hYf a]h XYa HcX [YXfc\h'\UhhYb" 8]Yg'\UhiY]bY
i a ZUggYbXY : U\bXi b[i bX dc`]h]gWkY 8]g_i gg]cbYb ØVYf X]Y
G]WkYf\Y]h]b gc`WkYb 9]bf]Wk hi b[Yb'Ui g[Y`Ògh"

<]b hYf[fØb XY 'XYf': `i W\ h

 $8] Y'j] Yf'A ÅbbYfž']a '5`hYf'j cb'&+ž'&, 'i bX'' %' $J \fYbž' \UVYb'Y]bY @] ghY'j cb'GhfUZhUhYb'Ui Z'] \fYa '?cbhcž'XUfi bhYf'? ÔfdYfj Yf`Yhni b[i bX'J YfghÒ» Y'[Y[Yb'XUg'6YhÀi Vi b[ga]hhY`[YgYhn'''=\fY': `i W\h k]fX'U`g'[YZÀ\f`]W\'Y]b[Yghi Zhž'i bX'Yg'k]fX'gck c\`'j cb'XYf GhUUhgUbk U`hgW\UZh'U`g'Ui W\'j cb'XYf'?f]a]bU`dc`]nY]'k Y[Yb J YfXUW\hg'Ui Z'; Y]gY`bU\a Y'Yfa]hhY`h'''9]b'GdfYW\Yf'XYg'6Yn]f_g [UV'Ubž'XUgg'X]Y'5fh'i bX'K Y]gY'XYf': `i W\h'i bX'X]Y$

; fi ddYbXmbUa]_'XYf'HÀhYf'VYgcf[b]gYffY[YbX'gY]Yb"'Hfchn X]YgYf'9]bgW\Àhni b['[`Ui VYb'X]Y'6Y\ÒfXYbž'XUgg'X]Y'A ÀbbYf XYfnY]h'_Y]bY'[fi bX`cgYb'6YXfc\i b[Yb'ZØf'8f]hhY'XUfghY``Yb"

FYU_h]cbYb'Ui Z'X]Y': `i W\h

 $6? < !7 \ YZUfnh' \approx UWX] a "B] hgWX_Y ` Uh' X] Y "G] WX Yf ` Y] hgY] bf] WX hi b [j YfhY] X] [h'i b X "VY hc b hž' X Ugg": À ``Y "j c b "@c W_Yfi b [ga] ggV f Ui WX "] b XY f'? `] b]_ "gY `hY b "g] b X " "9 f' Ài » YfhY "J YfghÀ b X b] g "X U ZØ f ž' X Ugg "X Ug G] WX Yf ` Y] hgY a d Z] b XY b "XY f' 6 Ø f [YfghØ W_Y "b UWX "XY b "J c f ZÀ ``Y b [Y`] hhY b "\ Uhž'i b X "Y b hg WX i `X] [hY "g] WX "X U ZØ f " "8 Y b b c WX "V Y hc b hY "Y f ž X Ugg "X] Y "6 Y \ Ub X`i b ["XY f' D Uh] Y b hY b "gY \ f" [i h'c f [Ub] g] Y f h'g Y] "i b X X] Y "G] WX Yf \ Y] h'XY f' 6 Y j O`_Yfi b ["] a a Y f' c V Y f g hY "D f] c f] hÀ h' \ UV Y "$

8 Yi h`]W\Y'?f]h]_'_ca a hi bhYfXYggYb'j cb'XYf'@UbXhU[g!GD8"'G]Y ZcfXYfhYž'XYb'J cfZU```[fØbX`]W\ni 'UbU`mg]YfYb'i bX'b]W\h']b'Y]bY fYU_h]j Y'<U`hi b['ni 'j YfZU``Ybž'X]Y'a Ò[`]W\Yfk Y]gY'b]W\h'X]Y bÒh][Yb'ŸbXYfi b[Yb'VYk]f_Yb'k ØfXY"'<cfgh'5fbc`Xž'GD8! GdfYW\Yf'ZØf'J YfZUggi b[ž'FYW\h'i bX'DUf`Ua YbhgZfU[YbžVYnY]W\bYhY'XYb': `i W\hZU```U`g'Y]b' 8 YgUghYf 'ZØf'X]Y GhUUhgfY[]Yfi b['i bX'ZcfXYfh'Y]bY'gW\cbi b[g`cgY'GY`Vgh_f]h]_"

Ni gàhn`]WX]gh'Y]b'k Y]hYfYf': `i WX hj Yfgi WX 'Ui g'Y]bYf
Ub[fYbnYbXYb'9]bf]WX hi b['Ui Z[YZU``Yb"'9fgh'Ua '- "'5i [i gh'k Uf
Y]b' \delta gUggY'XYg'6Yn]f_g_fUb_Yb\Ui gYg'A U]b_cZYb']b'8Y[[YbXcfZ
Ybh_ca a Yb"'8]YgYf'J cfZU``ž'XYf'k À\fYbX'Y]bYg'VY[`Y]hYhYb
5i gZi [g'[YgWXU\ž'nY][hž'XUgg'X]Y'G]WXYf\Y]hg`U[Y']b
dgmWX]Uhf]gWXYb'9]bf]WX hi b[Yb'Y]b'_ca d`Yl Yg'i bX'Vf]gUbhYg
H\Ya U']ghž'XUg'Xf]b[YbX'Ub[Y[Ub[Yb'k YfXYb'a i gg"

5i gV`]W_'Ui Z'X]Y'_ca a YbXYb'GWXf]hhY

I a 'XUg'G]W\Yf\Y]hgb]j YUi ']b'dgmW\]Uhf]gW\Yb'9]bf]W\hi b[Yb'ni j YfghY\Ybž']gh'Yg'k]W\h][ž'g]W\'X]Y'fYW\h`]W\Yb

FU\a YbVYX]b[i b[Yb'i bX'DgmW\]Uhf]Y[YgYhnY']b'8Yi hgW\`UbX

Ubni gY\Yb"'8Ug'DgmW\]gW\!?fUb_Yb!; YgYhn'fDgmW\?; Ł'V]`XYh'X]Y

; fi bX`U[Y'ZØf'X]Y'6Y\UbX`i b['i bX'I bhYfVf]b[i b['dgmW\]gW\
_fUb_Yf'A YbgW\Yb"'8]Y'; YgYhn[YVi b['n]Y`h'XUfUi Z'UVž'X]Y'FYW\hY

XYf'DUh]YbhYb'ni 'gW\ØhnYbž'k À\fYbX'[`Y]W\nY]h]['X]Y'G]W\Yf\Y]h

XYf'² ZZYbh`]W_Y]h'g]W\Yf[YghY``h'k YfXYb'a i gg"'\\$\'6UmYfb'[]Vh'Yg

gdYn]Z]gW\Y'FY[Y`i b[Ybž'X]Y'9]bZi gg'Ui Z'X]Y'G]W\Yf\Y]hg_cbnYdhY

]b'?`]b]_Yb'\UVYb"

 $= 3.5^{(3)} Ya Y]bYb^{(3)}Y[hXYf^{(3)} c_i gXYf^{(3)}DgmWX]Uhf]Y^{(1)}Ui ZXYf \\ 6YVUbX^{(3)}b[i bX^{(3)}FYVUV]^{hUh}]cb^{(3)}XYf^{(3)}DUh]YbhYb^{(3)}BgVYgcbXYfY^{(3)}hicZha U^{(3)}g \\]a^{(3)}cbZ^{(3)}_ha^{(3)}hXYb^{(3)}G]WXYfVY]hg]bhYfYggYbz^{(3)}bgVYgcbXYfY^{(3)}KYb^{(3)}Y^{(3)}BgVYgcbXYfY^{(3)}KYb^{(3)}Y^{(3)}BgWYf^{(3)}Y^{(3)}BgWYf^{(3)}Y^{(3)}HY^{($

8]Y'<YfUi gZcfXYfi b[Yb']b'XYfdgmWX]Uhf]gWXYb'JYfgcf[i b[

8]Y'dgmW\]Uhf]gW\Y'JYfgcf[ib[']b'8YihgW\`UbX'ghY\h'jcf a Y\fYfYb'<YfUigZcfXYfib[Yb"'Nia'Y]bYb'[]Vh'Yg']a a Yf'k]YXYf 6Yf]W\hY'ØVYf'X]Y'\c\Yb'EichYb'Ub'FØW_ZÀ``Yb'jcb'dgmW\]gW\ _fUb_Yb'GhfUZhÀhYfbž'X]Y'k]YXYf'ghfUZZÀ``]['kYfXYbž'bUW\XYa'q]Y

- D'XYf'FY[Y`k]fX'bUW\'Y]bYf'9bh`Uggi b['Y]b'gcn]U`Yf
 K]YXYfY]b[`]YXYfi b[gdfcnYgg'Ub[Yghc» Ybž'XYf'Ui Z'X]Y
 6YXØfZb]gqY'XYf'DUh]YbhYb'ni [YgW\b]hhYb']gh"
- 9g'[]Vh'YXcW\'cZh'i bni fY]W\YbXY'FYggci fWYb'ZØf'X]YgY BUW\qcf[Yž'k Ug'X]Y'9ZZY_h]j]hÀh'j Yff]b[Yfh"

Ni gàhn`]W\`ni `XYb`<YfUi gZcfXYfi b[Yb`VY]a `FØW_ZU``a UbU[Ya Ybh []Vh'Yg`Ui W\`Y]b`ni bY\a YbXYg`ÒZZYbh`]W\Yg`±bhYfYggY`Ub`XYf G]W\Yf\Y]h"`8]Y`: à``Y`j cb`: `i W\hii bX`; Yk U`h`]b`?`]b]_Yb`k YfZYb : fU[Yb`ni `XYb`VYghY\YbXYb`G]W\Yf\Y]hgghUbXUfXg`Ui Z"`8]Y`Dc`]h]_]gh`[YZcfXYfhž'@Ògi b[Yb`ni `Z]bXYbž'i a `X]YgY`DfcV`Ya Y`ni UXfYgg]YfYb`i bX`XUg`ÒZZYbh`]W\Y`JYfhfUi Yb`]b`XUg`dgmW\]Uhf]gW\Y GmghYa `k]YXYf\Yfni ghY``Yb"

Dc`]h]gWXY'8]g_i gg]cbYb'ØVYf'X]Y'JYfVYggYfi b['XYfG]WXYf\Y]hgj cf_Y\fi b[Yb'g]bX'Ui WX'Y]b'NY]WXYb'ZØf'Y]bk UWXgYbXYg'6Yk i gghgY]b'i bX'6Ygcf[b]g'ØVYf'dchYbn]Y``YyyZU\fYb"'8]Y'FYZcfa Yb'a ØggYb'XUVY]'gcf[ZÀ`h]['ØVYfXUWXhkYfXYbž'i a 'g]WXYfni ghY``Ybž'XUgg'X]Y'6Y\UbX`i b['XYf'DUh]YbhYbb]WXh'VYY]bhfÀWXh][h'k]fX'i bX'XUgg'X]Y'FYWXhY'XYf'6YhfcZZYbYb[Yk U\fh'V`Y]VYb"

8 Y hU]`g

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