5`\_c\c`]g]YfhYf': U\ fYf'a]h'ØVYf''
Dfca]`Y`]b`<Y]a g\Y]a `[Yghcddh

((!\f][Yf`]b`<Y]a g\Y]a `a ]h'ØVYf'' `Dfca]`Y`Ua `GhYi Yf
Yfk]gW\h": Ø\ fYfgW\Y]b`Ybhnc[ Ybž'5bnY][ Y`k Y[Yb
Hfi b_Yb\Y]h'Zc`[h"

\$- "\$- "&\$&(' '%%.&)

Dc`]nY]dfÅg]X]i a `DZcfn\Y]a

⇒ a `9bn\_fY]g`_Ua `Yg`Ua `: fY]hU[ a ]hU[ `ni `Y]bYa `[YZ\`f`]W\Yb
Nk]gW\YbZU`ž`U`g`Y]b` ( ( !\f][ Yf': U\ fYf'a ]h`Y]bYa `YI hfYa `c\Yb
6`i hU`_c\c`[ Y\U`h`j`cb`ØVYf'' `Dfca]`Y`Ub[YhfcZZYb`k`i`fXY""8]YgYf
JcfZU`k`i`fXY`Xi`fW`Y]bYb`Ui`Za`Yf\_gUa`Yb`NYi`[`Yb`]bg`F`c`Y`b
[YVfUW\hž`XYf`XYb`Ub`gW\Y]bYbX`VYhfi`b_YbYb`A`Ubb`a`]h`gY]bYa
5i`hc`Ui`Z`XYf`@Ub`XYgghfU»`Y`%%`(`nk`]gW\Yb`XYf`5bgW\`i`ggghY`Y
<Y]a`g\Y]a`i`bX`<Y]a`g\Y]a`VYcVUW\hYh`UhhY""8]Y`Dc`]nY]`k`i`fXY
i`a`[`Y\YbX`]bZcfa`]Yfh`i`bX`hfUZ`[`Y[`Yb`%(`l`f`Ub`Y]bYf
6i`g\U`hYghY`Y`GW\Uz`ÅgW\Y`Y]bž`k`c`Y]bY`?`cbhfc`Y`XYg': U\ fYfg
Xi`fW`[`YZ\`fh`k`i`fXY"

6Y]`XYa`5hYa`U`_c\c`j`cfhYgh`ghY`h`Y]g]W\`YfUi`gž`XUgg`XYf': U\ fYf
Y]bY`Yf\YV`]W\Y`5`_c\c`]g]Yfi`b[`Ui`Zk`]Ygž`k`Ug`]b`U`g`UVgc`i`h
ZU\fi`bhØW\h][ `Y]bghi`ZhY""`bZc`[`YXYggYb`a`i`ggghY`XYf`A`Ubb`gY]bYb
: Ø\ fYfgW\Y]b`i`bX`6`i`h`UV[`YVYb"";`Y[`Yb`]b`k`]fX`bi`b`Y]bY
GhfUZUbny][`Y`k`Y[`Yb`Hfi`b_Yb\Y]h]a`GhfU»`Ybj`Yf\_Y\`f`Y]b[`Y`Y]hYh"

5`\_c\c`_cbgi`a`Ua`GhYi`Yf`i`bX`gY]bY':`c`[`Yb

⇒ 8Yi`hgW\`UbX`[`]Vh`Yg`_UfY`FY[`Y`i`b[`Yb`ni`a`5`\_c\c`Ua`GhYi`Yf`
5V`Y]bYa`6`i`hU`\_c\c`gd]Y[`Y`j`cb`\$ž`Dfca`]`Y`gdf]W\h`a`Ub`j`cb

fY`Uh]j Yf': U\fi bhØW\h][_Y]h"8 Ug'VYXYi hYhž'XUgg': U\fyfž'X]Y'VY]
X]YgYa`K Yfh'ZU\fybž'g]W\ghfUZVUf'a UWYb'_ÖbbYbž'VYgcbXYfg
k Ybb'g]Y': U\fZY\`Yf'a UWYb'cXYf' ]b`Y]bYb`l bZU``j Yfk]W_Y`h'g]bX"
: Øf': U\fyfž'X]Y'Y]bYb'6`i hU`_c\c`k Yfh'j cb`%ž%`Dfca ]`Y`cXYf'a Y\f
Ui Zk Y]gYbž'[Y`hYb`X]Y'?f]hYf]Yb`XYf'UVgc`i hYb': U\fi bhØW\h][_Y]h"
<]Yf'g]bX`X]Y': c`[Yb`VYgcbXYfg'[ fUj ]YfYbX`'bYVYb`Y]bYf
GhfUZUbny][Y`Xfc\h`X]Y'9bhm]Y\i b[`XYf': U\fyf`Ui Vb]g"

8]Y'5i gk]f_i b[Yb`j cb'5`_c\c`Ui ZX]Y': U\fhØW\h][\_Y]h'g]bX`b]W\h
ni`i bhYfgW\ÄhnYb"5V\Äb[ ][ `j cb`XYf'?cbgi a a Yb[ Y`_ÖbbYb
Yf\YV`]W\Y'6YY]bhfÄW\h][ i b[ Yb`XYf'< Øf!`i bX`GY\ZÄ][_Y]h
Y]bhfYhYb"5i W\`X]Y'?ccfX]bUh]cb`i bX`XUg`FYU_h]cbgj Yfa Ö[Yb
`UggYb`bUW\ž`k Ug`X]Y': Ä\][_Y]hž'5VghÄbXY`i bX`i; YgW\k]bX][_Y]hYb
_cffY`\_h`Y]bni`gW\ÄhnYbž'ghUf`_VYY]bhfÄW\h][h"6YfY]hg`UV`Y]bYa
K Yfh'j cb`%ž) `Dfca]`Y`ghY][h`XUg`F]g]_cž]b`Y]bYb`l bZU``j Yfk]W_Y`h
ni`k YfXYbž`i a `XUg`%&!ZUW\Y"8]YgY`NU\`Yb`i bhYfghfY]W\Yb`X]Y
; YZU\fybž'X]Y'5`\_c\c`_cbgi a `]a`GhfU»Ybj Yf_Y\`f'a ]h'g]W\`Vf]b[h"

8]Y'Dc`nY]'ZcfxYfh`XU\Yf`U`Y`J Yf\_Y\`fghY]'bY\`a Yf`Ui Ž
j YfUbhk cfhi b[gj c``ni` \UbXY`b`i bX`Ui ZXUg': U\fyb`i bhYf
5`\_c\c`Y]bZi gg`ni`j Yfn]W\hYb"6]W\Yf\Y]h`]a`GhfU»Ybj Yf_Y\`f
gc``h`]a a Yf`Ub`YfghYf`GhY`Y`ghY\`Ybž`i bX`X]Y`F]g]_Ybž'X]Y
5`\_c\c`_cbgi a `]a ]h'g]W\`Vf]b[hž'g]bX`gck c\`ZØf`XYb': U\fyf`U`g
Ui W\`ZØf`UbXYfY`J Yf\_Y\`fghY]'bY\`a Yf`Yf\YV`]W\`"

: Øf`k Y]hYfY`≠Zcfa Uh]cbYb`i bX`F ØW_ZfU[Yb`ghY\`h`XUg
Dc`nY]dfÄg]X]i a`DZcfn\Y]a`ni`f`J YfZØ[ i b[ "8]Y`Öfh]W\Yb
6YUa`hYb`g]bX`VYghfYVhž'X]Y`J Yf_Y\`fgg]W\Yf\Y]h`]b`XYf`FY[]cb`ni
Yf\Ö\Yb`i bX`i b`_cbhfc``]YfhY`Hfi b\_Yb\Y]h`Ua`GhYi Yf`Yb`hgW\]YXYb
ni`VY\_Äa`dZYb"

C f][]bU`!7cbhYbh`j cb.`Dc`nY]dfÄg]X]i a`DZcfn\Y]a`žØVYfa]hY`h
Xi fW\`bYk`g`U`_hi`Y``

6Ygi W\Yb`G]Y`i bg`Ui Z.`b!U["XY