

GWk YfYf'I bZU``Ub'? fYi ni b[. 'Nk Y]
: fUi Yb'VY]'? c``]g]cb'j Yf`Yhnh

6Y]'Y]bYa '5i hci bZU``]b'FYW`_]b[\Ui gYb'k i fXYb'nk Y]
: fUi Yb'gWk Yf'j Yf`Yhnh"8Yf'Ni gUa a Ybghc» `YfY][bYhY'g]Wk
Ub`XYf'? fYi ni b['GUbXghfU» Y#? cbfUX!5XYbUi Yf!5``YY"

FYW`_]b[\Ui gYb' '9]b'gWk YfYf'j Yf_Y\fgi bZU``YfY][bYhY'g]Wk `Ua
gdÅhYb'GUa ghU[UVYbX'Ub`XYf'j]Y`VYZU\fybYb'? fYi ni b[
GUbXghfU» Y'i bX'? cbfUX!5XYbUi Yf!5``YY"6Y]'X]YgYa
Ni gUa a Ybghc» nk Y]Yf': U\fnYi [Y'k i fXYb'nk Y]: fUi Ybž'Y]bY
&\$!Å\][Y'Ui g'; Y'gYb_]fWYb'i bX`Y]bY")!Å\][Y'Ui g'; `UXVYW`ž
gWk Yf'j Yf`Yhnh' bX'a i gghYb'i a [Y\YbX']bg'? fUb_Yb\Ui g
[YVfUW'h'k YfXYb"8]Y'5`Ufa a Y`Xi b['hfUZ[Y[Yb'&' .&) 'I \f`Y]bž
U`g`X]Y`↑ b[Y': U\fyf]b'j Yfgi W'hYž'j cb`XYf'GUbXghfU» Y'bUW``]b_g
]b`X]Y'? cbfUX!5XYbUi Yf!5``YY`UVni V]Y[Yb"

9g'ghY`hY'g]Wk \YfUi gž`XUgg'g]Y`XUVY]`a]h`XYa
Ybh[Y[Yb_ca a YbXYb'D_k `XYf`Å'hYfyb': U\fyf]b`_c``X]YfhY"8Yf
5i ZdfU``k Uf`gc`\YZh][ž`XUgg`VY]XY'5i hcg`Yf\YV`]Wk `VYgW`ÅX][h
k i fXYb'i bX'ni f'6YgY]h][i b[`XYf`HfØa a Yf`UV[YgW`Yddh'k YfXYb
a i gghYb"8Yf'; YgUa hgW`UXYb'k]fX'j cb`XYb'6Y\ØfXYb'Ui ZYhk U
% "\$\$\$'9i fc'[YgW`Åmhž'k Ug`X]Y`GWk YfY`XYg'I bZU``g
i bhYfghfY]Wk h"

8YhU]`g`ni a `I bZU``\Yf[Ub[

8]Y'[YbUi Yb'I a ghÅbXY`XYg'I bZU``g'k YfXYb`XYfnY]hj cb`XYf
Dc`nY]'i bhYfgi W'h`NYi [YbVYf]Wk hY`XYi hYb`XUfUi Z`]bž`XUgg`X]Y
&\$!Å\][Y`VY]a `5VV]Y[Yb'a Ø[`]Wk Yfk Y]gY`X]Y`J cfZU\fh`XYf
Ybh[Y[Yb_ca a YbXYb': U\fyf]b'a]ggUW`hYh'\Uh"8]Yg']gh`Y]b
\Åi Z][Yg'DfcV`Ya `Ub'j]Y`VYZU\fybYb'? fYi ni b[Ybž'k c`X]Y

J Yf_Y\fgnY]W\Yb'cZh'b]W\h'Ui_gfY]W\YbX'VYUW\hY'h'k YfXYb''9g']gh
Y]bY'hfUi_f][Y'FYU'hÀhž'X]Y'J Yf_Y\fgH]bY\ a Yf'ja a Yf'k]YXYf'j cf
F]g]_Yb'ghY''h"

6Y]XY'j Yf'YhnhYb': fUi Yb'k i fXYb'bUW\XYa 'l bZU'']bg
?fUb_Yb\Ui_g'Y]b[Y']YZYfh''8Yf'a ca YbhUbY'; Ygi bX\Y]hgni ghUbX
XYf'6Yhf'cZZYbYb'V'Y]Vh'i b[Yk]ggž'XU'Yg'g]W\i a 'gW\k YfY
J Yf'Yhni b[Yb'\UbXY'h''8U\Yf''Ui_ZYb'_U_hi Y''F ØW_ZFU[Yb'VY]'XYb
VY\UbXY'bXYb'ÿfnhYbž'i a 'k Y]hYfY' ðZcfa Uh]cbYb'ØVYf'\fY
; YbYgi b['ni 'Yf\U'hYb"

J Yf_Y\fgg]W\Yf\Y]h']a ': c_i g

8Yf'l bZU''\Uh'YfbYi h'Y]bY'8]g_i gg]cb'ØVYf'X]Y
J Yf_Y\fgg]W\Yf\Y]h'Ub'_f]h]gW\Yb'?fYi ni b[Yb'YbhZUW'h''9g']gh'Y]b
YfbghYf'5ddY''Ub'U''Y'5i hcZU\fyfž'X]Y'FY[Y'b'XYf
GhfU» Ybj Yf_Y\fgcfXbi b['ghf]_h'ni 'VYZc'[Yb'i bX'g]W\i '\fYf
J YfUbhk cfhi b['\]bhYf'XYa 'GhYi Yf'VYk i ggh'ni 'gY]b''J cf'U''Ya
↑ b[Y': U\fyf'g]bX'cZh]b'[YZÀ\ f']W\Y'G]hi Uh]cbYb'j Yfk]W_Y'hž'gY]'Yg
Xi fW\i bUW\hgUa _Y]h'cXYf'i bYfZU\fybYg': U\fyb"

6Y\ØfXYb'i bX'G]W\Yf\Y]hgcf[Ub]gUh]cbYb'_ØbbhYb'XUfØVYf
bUW\XYb_Ybž'bYi Y'A U» bU\ a Yb'ni 'Yf[fY]ZYbž'i a 'gc'W\Y'l bZÀ''Y
ni 'j Yfa Y]XYb''8Uni '[Y\ØfYb'a Ø['\]W\Yfk Y]gY'ni gÀh'n]W\Y
J Yf_Y\fggW\]XYfž'VYggYfY'6Y'Yi W\hi b['Ub'?fYi ni b[Yb'cXYf'[Uf
X]Y'9]bZØ\fi b['j cb'a cXYfbYb'5a dY'gmghYa Ybž'X]Y'Ui Z'X]Y
J Yf_Y\fgg]hi Uh]cb'fYU[]YfYb'_ØbbYb''8Yf'GW\i hn'XYf
J Yf_Y\fgH]bY\ a Yf'gc''hY'ghYhg'cVYfghY'Df]cf]hÀh'\UVYb"

8]Y'8UfghY''i b['XYf'J Yf_Y\fgVYX]b[i b[Yb']b'FYW\]b[\Ui_gYb']gh
VYgcbXYfg'k]W\h][ž'XYbb'X]Y'FY[]cb'\Uh]b'XYb''YhnhYb' ð\fyb
Y]bYb'5bgh]Y['Ub'J Yf_Y\fgi bZÀ''Yb'j YfnY]W\byh''8]Y'ghÀXh]gW\Yb
D'UbYf'i bX'J Yf_Y\fgVY\ØfXYb'g]bX'[YZc'fXYfhž'A U» bU\ a Yb
i a ni gYhnYbž'X]Y'b]W\h'bi f'X]Y'G]W\Yf\Y]h'Yf\Ø\Ybž'gcbXYfb'Ui W\
XUg'J Yf'fUi Yb'XYf'6Øf[Yf']b'X]Y'J Yf_Y\fgUb'U[Yb'ghÀf_Yb"

ðg[YgUa h'nY][h'X]YgYf'J cfZU''ž'k]Y'k]W\h]['Yg']ghž'k UW\gUa 'ni
gY]b'i bX'g]W\]a a Yf'XYf'dchYbh]Y''Yb'; YZU\fyb']a

GhfU» Ybj Yf_Y\ f`VYk i ggh'ni `V`Y]VYb" :>XYg :>J\ f`j Yf`YhnYb`g]W
j]Y`Y`A YbgWYb`b`5i hci bZ`Ybž`i bX`\`Ai Z][` _`ObbhYb`gc`WY
J cfZ`Y`Xi fW`Y]b`k Yb][`a Y\ f`J cf g]W h i bX`5i Za Yf_gUa _Y]h
j Yfa]YXYb`k YfXYb"

8]Y` : c`[Yb`XYg`i bZU``g

5VgW`]Y» YbX` `Aggh`g]W`gU[Ybž`XUgg`XYf`i bZU``Ub`XYf`? fYi ni b[
GUbXghfU» Y#? cbfUX!5XYbUi Yf!5``Y`b]W`h`bi f`dYfg`Ob`]W`Yg`@Y]X
Z`f`X]Y`6Yhfc`ZYbYb`Vf]b[hž`gcbXYfb`Ui W`Y]bY`VfY]hY`8YVUhY
ØVYf`G]W`Yf\Y]h`ja` GhfU» Ybj Yf_Y\ f`Ubghc» Yb`_`ObbhY`"K Ybb`g]W
k Y]hYfY`gc`WYf`J cfZ`Y`\`Ai ZYbž`_`ObbhY`X]Yg`Ui W`ni`Y]bYa
I a XYb`_Yb`]b`XYf`J Yf_Y\ fgd`c`h]_`Z`f`Yb`"8]Y`YbhgW`Y]XYbXYb
: fU[Yb`ØVYf`X]Y`G]W`Yf\Y]h`U`Yf`J Yf_Y\ fghY]`bY`a Yf`V`Y]VYb
k Y]hYf\]b`ja` : c`_i gž`i bX`Yg`]gh'ni `c`ZYbž`XUgg`XYfUfh][Y
HfU[`ØX]Yb`]b`Ni`_i bZh`j Yfa]YXYb`k YfXYb`_`ObbYb"

I bZ`Y`Ub`? fYi ni b[Yb`g]bX`]a a Yf`Y]b`VYgcf[b]gYffY[YbXYg
H\Ya Už`]bgVYgcbXYfY`]b`gh`Xh]gW`Yb` ; YV]YhYbž`k c`XYf`J Yf_Y\ f
X]W`hi bX`X]Y`5V`Yb`_i b[Yb`nU`\fY]W`g]bX`"8 Ug`Ni`gUa`a Ybgbc» Yb
j cb` : U\fnYi [Yb`_Ubb`c`Zh`Ui W`k Y]hfY]W`YbXY` : c`[Yb`\UVYbž
b]W`h`bi f`Z`f`X]Y`6YhY]][hYbž`gcbXYfb`Ui W`Z`f`X]Y`[YgUa`hY
J Yf_Y\ fgg]W`Yf\Y]h"

⊕ F YW`_]b[\Ui`gYb`nY][h`X]YgYf`i bZU``Y]ba U`a Y\ fž`k]Y`k]W`h][
Yg`]ghž`Ui`Z`X]Y`J Yf_Y\ fgfY[Y`b`ni`UW`hYb`i bX`g]W`XYf` ; YZU\ fYb
]a` GhfU» Ybj Yf_Y\ f`VYk i ggh'ni`gY]b`"5b`? fYi ni b[Yb`g]bX
J Yf_Y\ fgg][bU`Y`\`Ai Z][`YbhgW`Y]XYbXž`i a`Y]bYb`fY]Vi b[g`cgYb
i bX`g]W`YfYb`J Yf_Y\ fgZi`gg`ni`[Yk`Å\ f`Y]ghYb"
: Y\`YbhgW`Y]Xi b[Yb`cXYf`a`Ub[Y`bXY`5i Za Yf_gUa _Y]h`_`ObbYb
ZUhU`Y`? cbgYei YbnYb`bUW`g]W`n]Y\Yb"

GhUh]gh]_Yb`ni`J Yf_Y\ fgi bZ`Yb`]b

8 Yi hgW`UbX

8]Y`J Yf_Y\ fgi bZU``ghUh]gh]_]b`8 Yi hgW`UbX`V`Y]Vh`Y]bY
VYXYi hYbXY`E i Y`Y`Z`f`⊕ Zcfa`Uh]cbYb`ØVYf`X]Y`G]W`Yf\Y]h`ja

GhfU» Ybj Yf_Y\f"@Ui h'XYf'GhUh]gh]gWk Yb'6i bXYgUa h]gh'X]Y
NU\`XYf'J Yf_Y\fgi bZÄ`Y`]b'8Yi hgWk`UbX`]a`'đ\`f`&\$&&`YfbYi h
[Ygh]Y[Ybž'k cVY]'a`Y\`f`U`g`&ž+'A`]'`]cbYb`i bZÄ`Y`j YfnY]Wk bYh
k i fXYb"6YgcbXYfg`Yfj`cfn` \YVYb`]ghž'XUgg`?fYi ni b[Yb` \Äi Z][
U`g`i bZU`gWk Yfdi b_h[Y`hYb" `a`'đ\`f`&\$&&`YfY][bYhYb`g]Wk`Ui h
XYf'Dc`nY`]Wk Yb`?f]a`]bU`ghUh]gh]_`Yhk U` ((`DfcnYbh'XYf`i bZÄ`Y`Ub
gc`Wk Yb`GhY`Yb"

Ni gÄhn`]Wk`nY][Yb`Ghi`X]Ybž'XUgg`'† b[Y` : U\`fYfž`]bgVYgcbXYfY
i bhYf`&) `đ\`fYbž'Y]b` \Ö`YfYg`F]g]_c`ZØf`gWk YfY`J Yf_Y\fgi bZÄ`Y`
hfU[Yb"8]YgY`8UhYb`g]bX`U`Ufa`]YfYbX`i bX`i bhYfghfY]Wk Yb`X]Y
Bch`k YbX][_Y]hj`cb`5i Z`Äfi b[g_Ua`dU[bYb`i bX`d`fÄj`Ybh]j`Yb
A U» bU\`a`Yb`ni`f` : ÖfXYfi b[`XYf`J Yf_Y\fgg]Wk Yf\`Y]h"

J Yf_Y\fgg]Wk Yf\`Y]hg_Ua`dU[bYb`i bX` DfÄj`Ybh]c bga`U» bU\`a`Yb`

I a`X]Y`NU\`XYf`J Yf_Y\fgi bZÄ`Y`ni`fYXi`n]YfYbž'gYhnYb`g]Wk
j YfgWk]YXYbY`Cf[Ub]gUh]cbYb`i bX`6Y\ÖfXYb`ZØf
J Yf_Y\fgg]Wk Yf\`Y]hg_Ua`dU[bYb`Y]b" `đ`B`c`f`X`f\`Y]b`!K`YghZU`Yb
VY]gd]Y`gk`Y]gY`[]Vh`Yg`fY[Y`a`Ä»][`đ`Z`c`f`a`Uh]cb`gj`YfUb`ghU`hi`b[Yb
i bX`K`c`f`_g`l`c`d`gž`X]Y`g]Wk`Ub`† b[Y` : U\`fYf`f]Wk`hYb" `N]Y`gc`Wk`Yf
?Ua`dU[bYb`i]gh`Ygž`XUg`6Yk`i`gghgY]b`ZØf`[YZÄ`f`]Wk`Y
J Yf_Y\fgg]hi`Uh]cbYb`ni`gWk`ÄfZYb`i bX`XUg`f]Wk`h][Y`J Yf\`U`hYb`i]a
GhfU» Ybj Yf_Y\f`ni`ZØfXYfb"

8 UfØVYf`\]bUi`g`k`YfXYb`hYWk`b]gWk`Y`A U» bU\`a`Ybž'k`]Y`j`YfVYggYfhY
GhfU» YbVY`Yi`Wk`hi`b[`i`bX`a`cXYfbY`J Yf_Y\fg`Y]hgmghY`a`Yž
_c`bh]bi`]Yf`]Wk`i`a`[YgYhnhž`i`a`X]Y`G]Wk`Yf\`Y]h`Ub`[YZÄ`f`]Wk`Yb
?fYi`ni`b[Yb`ni`Yf\`Ö`Yb"8]YgY`A U» bU\`a`Yb`_Ö`bYb`XUni
VY]hfU[Ybž`X]Y`G]Wk`hVUf`_Y]h'XYf`J Yf_Y\fgnY]Wk`Yb`ni`j`YfVYggYfb
i bX`XUg`F]g]_c`j`cb`i bZÄ`Yb`ni`j`Yff]b[Yfb"

9]b`k`Y]hYfYf`k`]Wk`h][Yf`5gdY`_h]gh'X]Y`GWk`i`i`b[`j`cb` : U\`fYfb`]b`XYf
XYZYbg]j`Y` : U\`fk`Y]gY"8i`fWk`Yb`hgd`fYWk`Yb`XY
GWk`i`i`b[gd`fc[fUa`a`Y`_Ö`b`bhY`XUg`F]g]_c`j`cb`?c``]g]cbYb`Ub
?fYi`ni`b[Yb`g][b]Z]Ubh`[YgYb`_h`k`YfXYb" `Gc`Wk`Y`Dfc[fUa`a`Y`g]bX
VYfY]hg`HY]`XYf`5i`gV]Xi`b[`]b`j`]Y`Yb` : U\`fgWk`i`Yb`i`bX`V]YhYb`

Ub[Y\YbXYb': U\fyfb'k Yfhj c`Y'9f_Ybbhb]ggY'ØVYf'g]W\YfYg
: U\fyb"

⊕g[YgUa h'nY][h'XYf'I bZU``]b'FYW_`]b[\Ui gYb'X]Y'U_i hYb
<YfUi gZcfXYfi b[Ybž'XYbYb'g]W\X]Y'J Yf_Y\fgg]W\Yf\Y]h
[Y[YbØVYfg]Y\h"8]Y'?'ca V]bUh]cb'Ui g'dYfgØb`]W\Yf
J YfUbhk cfhi b[ž'5i Z_`Àfi b['i bX'hYW\ b]gW\Yb'J YfVYggYfi b[Yb
gd]Y'h'Y]bY'GW\`ØggY`fc`Y'VY]'XYf'A]b]a]Yfi b['j cb
J Yf_Y\fgi bZÄ``Yb'i bX'XYf'XUa]hj YfVi bXYbYb'J Yf'Yhni b[Yb"

8YhU]`g

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