

: 7`GW\U`_Y`\$(`8]g_i gg]cb`i a `J 5F!
9bhgW\Y]Xi b[`bUW\`B]YXYf`U[Y`[Y[Yb
BØfbVYf[

B UW\`XYf`B]YXYf`U[Y`j cb`GW\U`_Y`\$(`[Y[Yb`BØfbVYf[`gcf[h
Y]bY`ghf]hh][Y` ; Y`V!F ch!9bhgW\Y]Xi b[`ZØf`8]g_i gg]cbYb`ØVYf
J 5F!FY[Y`b"

8Yf: 7`GW\U`_Y`\$(`_Y\fh`a`]h[Ya`]gW\hYb` ; YZØ\`Yb`bUW
; Y`gYb_]fW\Yb`ni fØW`ž`bUW\XYa` `XUg`Gd]Y`[Y[Yb`XYb`%": 7
BØfbVYf[`a`]h`%.` `j Yf`cfYb`[]b[""6YgcbXYfg]a` : c_i`g`ghY\`h`XYf
D`Uhnj`Yfk`Y]g`ZØf`F`cb`GW\U`_Yb`VYf[ž`XYf`X]Y`8]g_i gg]cb`i bhYf`XYb
: Ubg`i bX`9I`dYfhYb`Ub[Yghc»Yb`\Uh"8]Y` : fU[Y`V`Y]Vh`K`Ufi`a
V`]YV`XYf`J`]XYcUgg]ghYb`h`fU`5F`Ł`]b`?`Ø`b`i`bh`Åh][ž`U`g`X]Y
[Ya`]gW\hYb`9a` ch]cbYb`XYf` : Ubg`Ui`h`k`i`fXYb3

GW\ cW_`ZØf`X]Y`GW\U`_Y!: Ubg

: Øf`j`]Y`Y`I`bhYfghØhnYf`XYg: 7`GW\U`_Y`\$(`k`Uf`X]Y`9bhgW\Y]Xi b[
XYg`GW\]YXgf]W\hYfg`i`bj`Yfgh`ÅbX`]W\`"5`g`X]Y`HJ!6]XYf`Ub`U`mg]Yfh
k`i`fXYbž`k`Uf`XYf`9]bXfi`W_`Y]bYg`_`UfYb` : Y`\`Yfg`_`Ui`a`ni
k`]XYf`Y[Yb`"8]YgY`G]hi`Uh]cb`gcf[h`b]W\h`bi`f`ZØf`I`bfi`\Y`i`bhYf`XYb
: Ubgž`gcbXYfb`k`]fZh`Ui`W\` : fU[Yb`ni`f`9ZZ]n]Ybn`XYg`J 5F`Ui`Z"

K`]W\h][Y`F`Y[Y`b`XYg`J 5F

8]Y`9]bZØ\fi`b[`XYg`J 5F`\UhY`XUg`N]Y`ž`Y]bXYi`h][Y` : Y`\`Yf`]a
: i`»`VU``ni`VYgY]h][Yb`"5VYf`XUg`F`Y[`Ya`Ybh`Yf`Ui`Vh`bi`f`VY]a
J`cf`]Y[Yb`VYgh]a`a`hYf`6YX]b[i`b[Yb`Y]b`9]b[fY]ZYb`"8]Y`8Yi`hgW\Y
: i`»`VU``@][U`fB` : @Ł`Y[h`ZYghž`XUgg`XYf`J 5F`bi`f`]b`j`]Yf` : Å`Yb
Y]b[fY]Zh`VY]`Hc`fYbž`9`Za`YhYfbž`X]fY`_`hYb`f`chYb`?`UfhYb`i`bX
Gd]Y`Yfj`Yfk`YW\g`i`b[Yb`"ϕ`GW\U`_Yb`VYf[g` : U``_`Ua`_`Y]bY`X]YgYf

? UhY[cf]Yb`ni f`5bk YbXi b["

Gd]Y`Y]hi b[`i bX`D`Uhnj Yfk Y]g

⇒ a`Gd]Y`j Yf`Ui Z`k Uf`GW`U`_Y`\$(`ni b`ÅW`gh`ghUf`_i bX`[]b[`]b
: Ø\fi b["8Yf`D`Uhnj Yfk Y]g`j cb`GW`U`YbVYf[`VYg]Y[Y`hY`YXcW`
gW`bY`Y`Y]bY`K YbXY`ja`Gd]Y`"GW`]YXgf]W`hYf`B]W`U`g`K]bhYf`gU`
Y]b`: ci`ž`YXcW``U`bXY`hY`Yg`g]W`i a`X]Y`nk Y]hY`[Y`VY`? UfhY`ž`X]Y
nk Uf`ni a`D`Uhnj Yfk Y]g`ZØ`fhY`ž`YXcW`_Y]bY`X]fY`_hY`fchY`? UfhY
XUfghY`h`8]Yg`VYXYi hYhž`XUgg`XYf`J 5F`b]W`hY]b[fY]ZYb`_cbbhY`ž
XU`X]Y`FY[Y`b`_Uf`XYZ]b]Yfh`g]bX"

B]YXYf[Ub[`]b`i bhYfnU`

B UW`XYa`5i ggW`Y]XYb`GW`U`YbVYf[g`gW`]Yb`X]Y`[YgUa`hY
8mbUa`_]X`Yg`Gd]Y`g`ni`_]ddYb`"B ØfbVYf[`bi hnhY`X]Y`; Y`Y[Yb`Y]hž
i a`XUg`Gd]Y`ni`XfY`Ybž`k Ug`ZØf`X]Y`GW`U`_Yf`Y]bYb`V]hhYfYb
F ØW`gW`U[`VYXYi hYhY`"7cUW`? UfY`"; YfUYfhg`i bX`gY]bY
A UbbgW`UZ`h`a`i gghYb`bUW`X]YgYf`YfghYb`B]YXYf`U[Y`XYf`GU]gcb
b]W`h`bi`f`XUg`9f[YVb]gž`gcbXYfb`Ui W`XUg`; YZØ`X`Yf
I b[YfYW`h][_Y]h`]bbY`a`Yb"

6`]W`_]b`X]Y`Ni`_i`bZh

8]Y`8]g`_i gg]cb`i a`X]Y`J 5F!5bk YbXi b[`k`]fX`ja`XYi hgW`Yb
: i » VU`k`Y]hYf`]b`Y]b`Y]» Yg`H`Ya`U`V`Y]VYb`"CV`X]Y`FY[Y`b
fYz`cfa`]Yfh`k`YfXYb`a`ØggYbž`i a`]b`gc`W`Yb`G]hi Uh]cb`VYggYf`ni
fYU[]YfYbž`]gh`Y]bY`8YVUhhY`ž`X]Y`]b`XYb`_ca`a`YbXYb`K`cW`Yb
g]W`Yf`]W`: U`fh`Ui`ZbY`a`Yb`k`]fX`"8]Y`9fZU`fi b[`j`cb`GW`U`_Y
_ØbbhY`U`g`K`YbXYdi b`_h`ZØf`b`chk`YbX][Y`Y`bXYfi b[Yb`Ub[YgY`Yb
k`YfXYbž`X]Y`gck`c`Gd]Y`Yf`U`g`Ui`W`: Ub`g]a`5i [Y`VY`U`hYb
gc`hYb"

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