

I &' 'XYg'%"': 7 'A U[ XYVi f[ 'g]W\ Yfh'g]W\  
Di b\_h'[ Y[ Yb' < U`VYfghUXh

⇒ ' ]bhYbg]j Yb'CVYf'[ U!8i Y`'hfYbbhYb'g]W'X]Y'I &' 'XYg'%"  
: 7 'A U[ XYVi f[ 'i bX'XYf'J Z6'; Yfa Ub]U' < U`VYfghUXh'\$. \$"

5a 'GUa ghU[ 'ZUbX'Y]b'gdUbbYbXYg'8i Y`' ]b'XYf'CVYf'[ U'GØX  
ghUhhž'U'g'X]Y'I &' 'XYg'%"': 7 'A U[ XYVi f[ ' [ Y[ Yb'XYb'J Z6'; Yfa Ub]U  
< U`VYfghUXh'UbhfUH''8 Ug'A UhW\ 'YbXYhY'a ]h'Y]bYa  
'Y]ghi b[ g[ YfYW'hYb'\$. \$ž'XUg'gck c\`'GhÅf\_Yb'U'g'Ui W\  
< YfUi gZcfXYfi b[ Yb'XYf'VY]XYb'HYUa g'XYi h']W\ 'a UW'hY"

8 Yf'5bdZ]Z'VfUW'hY'gcZcfh'Y]bY'VYa Yf\_Ybgk YfhY' ðhYbg]hÅh'a ]h  
g]W\ "'6Y]XY'A UbbgW\ UZhYb'hfUhYb'Yb[ U[ ]Yfh'Ui Zi bX''YZYfhYb'g]W\  
Y]b'\YZh[ Yg'?cdZUb!?'cdZFYbbYb"'8]Y'Gd]Y'Yf'k UfYb'j cb'5bZUb[  
Ub'Zc\_i gg]Yfhž'k Ug'g]W\ ' ]b'Y]bYf'FY]\Y'j cb'\UfhYb'Nk Y]\_Åa dZYb  
Ài » YfhY"'NU† gW\ ž'Y]bYf'XYf'GW\ 'ØggY'gd]Y'Yf'j cb'A U[ XYVi f[ ž  
a i gghY' bUW\ 'Y]bYa ' ?cdZghc» 'bUW\ 'Y]bYf'J ]YfhY'ghi bXY  
Ui g[ Yk YW\ gY'h'k YfXYb'/J c[ 'Yf'\_Ua 'ZØf'\b' ]bg'Gd]Y''Hfchn  
Y]b][ Yf[ i hYf'7\UbW'b'k i W\ g'XYf'8fi W\_'Ui Z'X]Y'J YfhY]X][ i b[ 'XYf  
A U[ XYVi f[ Yfž'X]Y'YXcW\ 'ghUbX\UZh'V']YV'i bX'X]Y'; YZU\ fYb  
YbhgW\ ÅfZhY"

Gd]Y'j Yf`Ui Z']a '8YhU]`

⇒ 'XYf'YfghYb' < U`VnY]h'k Uf'XUg'; YgW\Y\Yb'Ui ZXYa 'D`Uhn'[ YdfÅ[ h  
j cb' ]bhYbg]j Yb'5\_h]cbYbž'XcW\ 'VY]XY'HYUa g'gW\ UZhYb'Yg'b]W\ hž  
XYb'6U''ja 'BYhn'ni 'j YfgYb\_Yb"'?i fn'j cf'XYf' < U`VnY]h'\UhhY  
BUX'ca VY'Y]bY'j ]Y'j YfgdfYW\YbXY'A Ò[ ' ]W\ \_Y]hž'XcW\ 'gY]b'GW'i gg  
k Uf'b]W\ h'dfÅn]gY' [ Ybi [ ži a 'X]Y' < U`VYfghÅXhYf'5Vk Y\ f'ni  
ØVYfk ]bXYb"'A ]h'Y]bYa 'hc'f'cgYb'i bYbhgW\ ]YXYb' [ ]b[ 'Yg' ]b'X]Y  
?UV]bY"

8]Y`nk Y]hY`<À`ZhY`XYg`Gd]Y`g`gYhnhY`XUg`c`Y`HYa`dc`Zcfh"?Ua`dUž  
XYf`Hcfk`Ufh`XYg`%":`7`A`U[`XYVi`f[`ž`nY][`hY`]b`X]YgYf`D\`UgY`gY]b  
?`ÒbbYbž`U`g`Yf`[`Y]W`a`Y`fYfY`\`YfUi`gfU[`YbXY`7`\`UbW`b`XYf  
<`U`VYfgh`A`XhYf`j`YfY]hY`hY""`8]YgY`A`ca`YbhY`XYf`Gd`Ubbi`b[`gcf[`hYb  
Z`f`B`Yfj`cg]h`h`Ui`Z`XYb`F`Åb[`Yb`i`bX`Ui`Z`XYa`Gd]Y`ZY`X""`b`XYf`)`\*`"  
A`]bi`hY`[`UV`Yg`Z`f`VY]XY`HYUa`g`k`Y]hYfY`A`Ò[`]W`\_Y]hYbž`X]Y  
U`YfX]b[`g`i`b[`Ybi`hnh`V`]YVYb""`8`Ug`9bXYf[`YVb]g`j`cb`\$.`\$  
k`X]Yfgd]Y[`Y`h`XYb`?`Ua`dZ[`Y]gh`VY]XYf`A`UbbgW`UZhYb"

## HfU]bYfgh]a`a`Yb`i`bX`9b`hk`]W`\_`i`b[`Yb

DUGW`\_`c`X`ž`XYf`[`]Y]W`VYfYW`h][`hY`7`\`Y`ZhU]bYf`XYg`%":`7  
A`U[`XYVi`f[`ž`fYZY`\_h]YfhY`bUW`XYa`Gd]Y`ØVYf`X]Y`@Y]ghi`b[`]gY]bYf  
A`UbbgW`UZh`<`]Yf`hfUZYb`Y]bZUW`nk`Y]i`bhYfgW`]YX`]W`Y  
Gd]Y`Ub`g`h`hY`Ui`ZY]bUbXYfž`UVYf`]b`XYf`Gi`a`a`Y`k`UfYb`k`]f`X]Y  
VYggYfY`A`UbbgW`UZh""`9`g`k`Uf`UVYf`Ui`W`\_Y]b`Gd]Y`ž`k`c`k`]f`7`\`UbW`  
ØVYf`7`\`UbW`\_`\`UhhYbž`i`bX`XU`Yf`\_`ÒbbYb`k`]f`XUg`9f[`YVb]g  
U`\_nYdh]YfYb""`A`]h`X]YgYf`9]bgW`h`mi`b[`]Vf]b[`h`c`X`X]Y`F`YU`]h`h`  
Ui`Z`XYb`Di`b`\_h""`9]b][`Y`A`U[`XYVi`f[`Yf`Gd]Y`Yf`\_`cbbhYb`]f`j`c`Yg  
DchYbn]U`b]W`h`Ui`ggW`ÒdZYbž`XYb`bcW`k`Uf`XUg`Yfn]Y`hY  
I`bYb`hgW`]YXYb`Y]b`:`cfhgW`]f]h`i]a`J`Yf[`]Y]W`ni`XYb`Y`hnhYb  
6Y[`Y[`bi`b[`Yb`[`Y[`Yb`<`U`VYfgh`UXhž`]b`XYbYb`X]Y`A`U[`XYVi`f[`Yf  
\_Y]bYb`G]Y[`]Yff]b[`Yb`\_`cbbhYb"

8]Y`DUfh]Y`ZUbX`j`cf`%`&`Ni`gW`Ui`Yfb`ghUhhž`X]Y`X]Y`\`Ufh  
i`a`\_`Aa`dZhYb`-`\$`A`]bi`hYb`a`]h`GdUbbi`b[`]j`YfZc`[`hYb"  
GW`]YXgf]W`hYf`B]W`c`Ug`?`Ò`\`Yfž`i`bhYfgh`Ø`hnh`j`cb`XYb`5gg]ghYbhYb  
Cg`Uf`@`Aa`dY`i`bX`A`UfY`\_`B]I`XcfZ`ž`gcf[`hY`Z`f`Y]bYb`fY]Vi`b[`]g`cgYb  
5V`Ui`Z`XYg`Gd]Y`g"

C`V`k`c`\`Yg`\_Y]bY`HcfY`[`UV`ž`k`Uf`Yg`Y]b`Gd]Y`j`c`Yf`?`Ua`dZ[`Y]gh  
i`bX`@Y]XYbgW`UZh""`8]Y`A`U[`XYVi`f[`Yf`Gd]Y`Yf`XYa`cbghf]YfhYb`]b  
X]YgYa`]bhYbg]Yb`5i`ZY]bUbXYfhfYZZYbž`XUgg`g]Y`[`Yk`]h`h`g]bXž`g]W  
XYb`<`YfUi`gZcfXYfi`b[`Yb`XYf`@[`U`ni`ghY`Yb`i`bX`g]W  
k`Y]hYfni`Yb`hk`]W`Y`b"

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