

H0X`]Wk Yf`I bZU``. `J YgdU!: U\ fYf`\_c``]X]Yfh  
a ]h`@Ughk U[ Yb`]b`F 0h\ YbVUWk

9]b`(\$!`A\ f][ Yf`A chcfcc`YfZU\ fYf`ghUfV`bUWk`Y]bYa`I bZU``  
a ]h`Y]bYa`@Ughk U[ Yb`]b`F 0h\ YbVUWk`Ub`XYf`DY[ b]hn`Dc`nY]  
Yfa ]hh`h"

⇒a`B0fbVYf[ Yf`@UbX`\Uh`Y]b`hfU[ ]gWkYf`J Yf\_Y\fgi bZU``XUg`@YVYb  
Y]bYg`A chcfcc`YfZU\ fYfg`[ YZcfXYfh"8Yf`J cfZU``YfY][ bYh`g]Wk  
k \Yb`Y]b`\*`\*!`A\ f][ Yf`@Ughk U[ YbZU\ fYf`VY]a`5VV]Y[ Yb`Y]bYb  
( \$!`A\ f][ Yb`J YgdU!: U\ fYf`0VYfgU\ ž`k Ug`ni`Y]bYa`gWk YfYb  
Ni`gUa`a Ybghc»`Z0\fhY"8Yf`J YgdU!: U\ fYf`k`i fXY`gc Zcfh`bUWk`XYa  
I bZU``j ca`FYhhi b[ gX]Ybgh`fYUb]a ]Yfh`i bX`]b`Y]b`?fUb\_Yb\Ui`g  
[ YVfUWk`h`Hfchm`U`Yf`6Ya`0\i b[ Yb`Yf`U[ `Yf`Ua`BUWk`a ]hU[  
gY]bYb`gWk YfYb`J Yf`Yhni b[ Yb"

K`A\ fYbX`XYf`I bZU``Ui`ZbU\`a`Yž`X]Y`j cb`XYf`Dc`nY]]bgdY\_h]cb`@Ui`Z  
U`X`"DY[ b]hn`Xi`fWk [ YZ0\fh`k`i fXYž`ghY`h`h`g]Wk`gWk`bY``\YfUi`gž  
XUgg`XYf`@Ughk U[ YbZU\ fYf`VY]a`5VV]Y[ Yb`]b`X]Y`K`YfbYf!j`cb!  
G]Ya`Ybg!5`YY`X]fY\_h]b`X]Y`6U\`b`XYg`A chcfcc`Yfg`[ YfUhYb`k`Uf"  
8]Yg`[ YgWk`U\`[ Y[ Yb`%) "\$\$`I` \f`]b`XYf`FYbnYb`cZYf`GhfU»`Y`]b  
F 0h\ YbVUWk`Ub`XYf`DY[ b]hn`8Yf`Dc`nY]`ni`Zc`[ Y`k`Uf`XUg  
,`VYfgY\Yb`XYg`F`c`YfZU\ fYfg`XYf`Yb`hgWk`Y]XYbXY`A`ca`Ybhž`XYf`ni  
X]YgYa`YfbghYb`I bZU``Z0\fhY"

I bZU``i fgUWk`Y`]a` : c\_i`g`XYf`9fa ]hh`i b[ Yb

8]Y`I`a`gh`AbXYž`X]Y`ni`X]YgYa`hfU[ ]gWk`Yb`J`cfZU``Z0\fhYbž`g]bX  
; Y[ YbghUbx`Ui`ZYbXYf`9fa ]hh`i b[ Yb"8]Y`Dc`nY]`\Uh`Y]bYb  
; i`hUWk`hYf`\]bni [ Ync[ Ybž`i`a`X]Y`[ YbUi`Yb`I`fgUWk`Yb`XYg`I bZU``g  
ni`\_`AfYb`"Gc`Wk`Y`; i`hUWk`hYb`g]bX`Yb`hgWk`Y]XYbXž`i`a`@]Wk`h]bg  
8i`b\_Y`ni`Vf]b[ Ybž]bgVYgcbXYfY`k`Ybb`a`YbgWk`]Wk`Yg`J`YfgU[ Ybž

k ]Y`]b`X]YgYa` : U`XUg` , VYfgY\Yb`Y]bYg`UbXYfYb  
J Yf\_Y\ fghY`]bY\ a Yfgž`Y]bY`F c`Y`gd]Y`Yb`\_ÒbbhY"

8 Yf`HcX`XYg` ( \$!`À\ f][ Yb`\ Uh`b]W\ h`bi`f`Y]bY` : Ua` ]]Y`]b`HfUi` Yf  
[ Ygh`Øfnhž`gcbXYfb`k ]fZh`Ui` W\ : fU[ Yb`ni`f`J Yf\_Y\ fgg]W\ Yf\ Y]h`Ui` Ž  
]bgVYgcbXYfY`]a` Ni`gUa` a` Yb\Ub[ `a` ]h`XYf`G]W\ h`WUf\_Y]h`j`cb  
A`chc`ffUXZU\ fYfb`i` bX`F c`Y`fb`]b`Y]bYf`ni` bY\ a` YbX`gh`ÀXh]gW\ Yb  
I`a` [ YVi`b[ "J Yf\_Y\ fgi`bZ`Y`X]YgYf`5fh`g]bX`Y]bY`YfbghY  
A`U\bi`b[ ž`k`]Y`k`]W\ h][ `X]Y`5i`Za` Yf\_gUa` \_Y]h`Ui`Z`XYb`GhfU`Yb`]gh"

8 ]Y`Òfh`]W\ Y`Dc`]nY]X]fY`\_h]cb`\ Uh`]b`XYa` Ni`gUa` a` Yb\Ub[ `XUni  
Ui`Z[ Yfi`ZYbž`VYgcbXYfg]a` J Yf\_Y\ fgfUi`a` j`cfg]W\ h][ `ni`gY]b"  
`X`XYf`J Yf\_Y\ fghY`]bY\ a` Yf`gc`h`Y`g]W\ `gY]bYf`J YfUb`hk`c`fhi`b[  
VYk`i`ggh`gY]b`i`bX`]a` a` Yf`Ui`Z`UbXYfY`UW\ h`Yb`ž`gc`Y]b  
DfYggYgdYfW\ Yf`XYf`Dc`]nY]"`A`U`bU\ a` Yb`ni`f`J Yf\_Y\ fgg]W\ Yf\ Y]h  
i`bX`5i`Z`Àfi`b[ `g]bX`i`bYf`Àgg`]W\ ž`i`a` `gc`W\ Y`i`b[ `ØW\_Y`]b`Ni`\_i`bZh  
ni`j`Yfa`Y]XYb"

8 ]Y` : Ua` ]]Y`i`bX` : fYi`bXY`XYg`j` Yfghc`fVYbYb`F c`Y`fZU\ fYfg`ghY\ Yb  
bi`b`j`cf`Y]bYf`gW\ k`YfYb`NY]hž`k`À\ fYbX`X]Y`9fa` ]h`i`b[ Yb`ni`f  
?`Àfi`b[ `XYg`J`cfZU`g`UbXUi`Yfb`"9]b`Ni`gUa` a` Ybghc`»`X]YgYf`5fh`\ Uh  
h]YZ`Z`Gdi`fYb`\ ]bhYf`UggYb`i`bX`k`]fX`g]W\ Yf`]b`XYb`?`ÒdZYb`XYf  
5bk`c\ bYf`Ub[ Y`bUW\ \U`Yb"

8 YhU]`g

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