

GWk YfYf'J Yf\_Y\ fgi bZU``Ui Z'@&, .  
A cdYXZU\ fYf`Yf`Y]XYh'J Yf`Yhni b[ Yb

9]b'' \*!`A\ f][ Yf`A cdYXZU\ fYf`k i fXY`VY]`Y]bYa`i bZU``Ui Z'XYf  
@&, `gWk Yf`j Yf`Yhnh" `F Yhni b[ g\i VgWfUi VYf`]a`9]bgUhnž  
HchU`gWUXYb`Ua`A cdYX"

5a`8]YbghU[ a cf[ Yb`\_Ua`Yg`Ui ZXYf`@&, žY]bYf`k ]W]h][ Yb`GhfU» Yž  
X]Y`BYXXYa`]b`a`h`6fi bb`j Yfv]bXYhž`ni`Y]bYa`Yfbgh\UZhYb  
J Yf\_Y\ fgi bZU``"i a`+.&) `i` \f`VYZUbX`g]W`Y]b`'' \*!`A\ f][ Yf  
A cdYXZU\ fYf`Ui ZXYf`@]b\_gUVV]Y[ Yfgdi fž`i a`ni f`5&\$`5i ZU\ fh  
BYi VfUbXYbVi f[ `BcfX`ni`[ Y`Ub[ Ybž`U`g`Yf`]b`Y]bYb  
Zc`[ YbgWk YfYb`Ni gUa`a Ybghc»`j Yfk ]W\_Y`h`k i fXY"

8 Yf`i bZU``YfY][ bYhY`g]Wž`U`g`Y]b`) `!`A\ f][ Yf`5i hcZU\ fYf`gck ]Y  
Y]b`? UghYbk U[ YbZU\ fYf`Ui g`F]W]hi b[ `BYXXYa`]b`i bhYfk Y[ g  
k UfYb" `K `A\ fYbX`XYf`A Ubb`a`h`XYa`A cdYX`k UfhYhYž`i a  
UVni V]Y[ Ybž`dUgg]YfhY`Y]bY`\_f]h]gW`Y`G]hi Uh]cb.`BUW`XYa`XYf  
? UghYbk U[ Yb`j cfVY][ YZU\ fYb`k Ufž`VYgW`cgg`XYf`A cdYXZU\ fYfž  
bUW`i]b\_g`UVni V]Y[ Yb" `HfU[ ]gW`Yfk Y]gY`\_Ua`Yg`XUVY]`ni f  
?c`]g]cb`a`h`XYa`bcW`ZU\ fYbXYb`i: U\fnYi [ ž`k Ug`ni`Y]bYa  
\YZh][ Yb`5i ZdfU``ZØ\ fhY"

### F Yhni b[ g\i VgWfUi VYf`]a`9]bgUhn

8 ]Y`Dc`nY]`VYgh`h][ hYž`XUgg`XYf`A cdYXZU\ fYf`gWk Yf`j Yf`Yhnh  
k i fXY`i bX`i a [ Y\YbX`]b`Y]b`? fUb`\_Yb`Ui g[ YVfUW`h`k YfXYb  
a`i gghY" `8 ]Y`J Yf`Yhni b[ Yb`k UfYb`gc`Yfbghž`XUgg`ZØf`]b`Y]bY  
k Y]hYfY`a`YX]n]b]gW`Y`J Yfgcf[ i b[ `b`Øh][ `k Uf" `8 Yf`5i hcZU\ fYf  
gck ]Y`gY]bY`&- !`A\ f][ Y`6Y]ZU\ fYf]b`V`]YVYb`i]b[ Y[ Yb  
[ `ØW`\_]W`Yfk Y]gY`i bj Yf`Yhnh" `Gc`W`Y`i bZ`A`Yž`VY]`XYbYb`J Yf`YhnhY  
ni`VY`\_U[ Yb`g]bXž`k YfZYb`cZi: fU[ Yb`ni f`J Yf\_Y\ fgg]W`Yf\Y]h`Ui Zž

]bgVYgcbXYfY`Z0f`Nk Y]fUXZU\fyfz`X]Y`Y]bYa`Yf\0\hYb`F]g]\_c  
Ui g[ YgYhnh'g]bX"

Ni f`l bhYfgh0hni b[ `XYf`F`Yhhi b[ g\_fAzhY`k i fXY`gc[ Uf`Y]b  
F`Yhhi b[ g\i VgW`fUi VYf`U`Ufa ]Yfhz`k Ug`X]Y`9fbgh\UZh][ \_Y]h`XYf  
G]hi Uh]cb`j YfXYi h`]W`h" Gc`W`Y`@ ZhfYhhi b[ gY]bgA`hny`g]bX`]b  
gW`k YfYb`l bZU`Z`A`Yb`c`Zh`bchk YbX][ ž`i a`gW`bY`Y`a`YX]n]b]gW`Y  
<]`ZY`ni`Y`]ghYb" K`A`fYbXXYggYb`a i gghY`XUg`XYa`c`]YfhY`A`cdYX  
j`cb`XYf`l bZU`ghY`Y`[ YVcf[ Yb`k YfXYbž`XU`Yg`bUW`XYa`5i ZdfU`  
b]W`h`a`Y`f`ZU`fVYfY]h`k`Uf"

@Ui h`Dc`]nY]VYf]W`h`VY`Ai Zh`g]W`XYf`GW`UXYb`Ua`A`cdYX`Ui Z`Yhk`U  
%\$`\$\$`\$`9i fcž`k Ug`XUfUi Z`\]bk`Y]ghž`XUgg`XYf`5i ZdfU`Yf\YV`]W`Yb  
9]bZi`gg`Ui Z`XUg`: U`fnYi [ `U`hny" `8`Yf`6Y[ f]ZZ`HchU`gW`UXYb  
VYXYi h`h`h`]Yfz`XUgg`XUg`A`cdYX`k`]fhgW`UZh]W`b]W`h`a`Y`f`ni  
fYdUf]YfYb`]ghž`XU`X]Y`?`cghYb`Z0f`X]Y`fYdUf]YfYbXYb`A`U»`bU`a`Yb  
X]Y`K`YfhY`XYg`: U`fnYi [ g`0VYfghY][ Yb"

8]YgYf`J`cfZU`]gh`Y]b`k`Y]hYfYg`6Y]gd]Y`XUZ0fz`k`]Y`[ YZ`\f`]W`XYf  
GhfU»`Ybj`Yf\_Y`f`gY]b`\_Ubbž`j`cf`U`Y`a`Z0f`Nk`Y]fUXZU\fyfz`X]Y`c`Zh`]b  
J`Yf\_Y`f`gi`bZ`A`Yb`i`bhYf`]Y[ Yb" `8]Y`G]hi`Uh]cb`\_0bbhY`Y]W`h  
nU`fY]W`Y`G]W`Yf\Y]hgZfU[ Yb`Ui`Zk`YfZYbž`]bgVYgcbXYfY  
Ub[ Yg]W`hg`XYf`ni`bY`a`YbXYb`Bi`hni`b[ `j`cb`A`cdYX`i`bX`A`chc`ffUX  
]b`gh`A`Xh]gW`Yb`;`YV]YhYb" `8]Y`J`Yf\_Y`f`gg]W`Yf\Y]hg\_Ua`dU[ bYb  
bY`a`Yb`]a`a`Yf`a`Y`f`Ub`6YXYi`hi`b[ `ni`ž`XU`g]W`X]Y  
J`YfUbhk`cfh]W`Yb`j`cfghY`Ybž`k`]Y`a`Ub`gc`W`Y`l`bZ`A`Y`j`Yf\]bXYfb  
i`bX`X]Y`F]g]\_Yb`Z0f`U`Y`J`Yf\_Y`f`ghY]`bY`a`Yf`a`]b]a`]YfYb`\_Ubb"

J`Yf\_Y`f`g]W`Yf\Y]h`a`i`gg`ghYhg`]a`:`c`\_i`g  
ghY`Yb

I`bZ`A`Y`k`]Y`X]YgYf`Yf]bbYfb`i`bg`XUfUbž`XUgg`YXYf`GW`f]h]a  
GhfU»`Ybj`Yf\_Y`f`j`cb`6YXYi`hi`b[ `]gh" `A`cdYXZU`fYf`i`bX`5i`hc`ZU`fYf  
a`0ggYb`g]W`XYf`J`YfUbhk`cfhi`b[ `VYk`i`ggh`gY]bž`X]Y`g]Y  
0VYfbY`a`Ybž`k`Ybb`g]Y`g]W`Y`]bhYf`XUg`GhYi`Yf`c`XYf`]b`XYb`GUhY`  
gYhnyb" `9]bY`gh`A`bX][ Y`GYbg]V`]g]Yfi`b[ `i`bX`X]Y`9]b`U`hi`b[ `j`cb  
J`Yf\_Y`f`fgfY[ Yb`g]bX`i`bYf`A`gg`]W`ž`i`a`XUg`J`YfhfUi`Yb`]b`i`bgYfYb  
GhfU»`Ybj`Yf\_Y`f`Ui`ZfYW`hni`Yf`U`hYb`i`bX`X]Y`G]W`Yf\Y]h`ni

Yf\0\Yb"

# I fgUWXYb`i bX`J Yf\_Y\fgg]WXYf\Y]h

8]Y`I fgUWXYb`Z0f`J Yf\_Y\fgi bZ`Y`g]bX`j ]Y`Z`h][ ž`Ài Z][`gd]Y`Yb`  
YXcW`a YbgW`]WXY` : U\_hcfYb`k ]Y`I bUW`hgUa`\_Y]hž  
; YgW`k ]bX`][`\_Y]h`cXYf` : Y`Y`b`hgW`Y]Xi b[ Yb`Y]bY`Y`b`hgW`Y]XYbXY  
F c`Y`"@Ui h`Y]bYf`Ghi X]Y`XYf`6i bXYgUbghU`h`Z0f`GhfU» Ybk YgYb  
f65Gh`g]bX`Yhk U` ) i`XYf`gW`k YfYb`J Yf\_Y\fgi bZ`Y`Ui ZX]Y  
I bUi Za Yf\_gUa`\_Y]h`XYf` : U`fYf`ni f0W`ni Z0`fYb`" `b`X]YgYa  
gdYn]Y`Yb` : U`\_`0b`bhY`X]Y`I bUW`hgUa`\_Y]h`VY]a`5VV]Y[ Yb`XYg  
A cdYXZU`fYfg`Y]bY`F c`Y`[ Ygd]Y`h`UVYb"

9]b`6`]W`Ui ZX]Y`J Yf\_Y\fgg]WXYf\Y]h]b`8Yi hgW`UbX`nY][ hž`XUgg  
X]Y`NU`XYf`J Yf\_Y\fg`h`Yb`]b`XYb`Y`h`h`Yb`š`fYb`]bg[ YgUa`h  
[ YgYb`\_h`k YfXYb`\_c`b`hY`"8cW`[ YfUXY`]b`ÀbX`]WXYb` ; YV]YhYb  
g]bX`X]Y`I bZU`nU`Yb`bUW`k ]Y`j cf`cW`"8]Y`G]WXYfghY`i b[ `Y]bYf  
VYggYfYb` `ZfUghfi`\_hi`f`gck ]Y`X]Y`GYbg]V`]g]Yfi b[ `XYf` : U`fYbXYb  
g]bX`k YgYb`h`]WXY`A U» bU`a Ybž`i a`X]Y`I bZU`nU`Yb`k Y]hYf`ni  
fYXi n]YfYb`" < ]Yf`\_0b`bhYb` `Zcfa` Uh]cbYb`j cb`XYf`8Yi hgW`Yb  
J Yf\_Y\fgk UW`h`ni g`Àm`]WXY`9f`Yb`hb]ggY`V]YhYb"

## F Yhhi b[ ga U» bU`a Yb`i bX

### B chZU``j Yfgcf[ i b[

«a` : U`Y`Y]bYg`gW`k YfYb`I bZU`g`k ]Y`X]YgYa`\_ca`a`h`Yg`c`Z`h`Ui ZX]Y  
GW`bY`][`\_Y]h`XYf`F Yhhi b[ ga U» bU`a Yb`Ub`"8Yf`9]bgUhn`Y]bYg  
F Yhhi b[ g`i VgW`fUi VYfg`XYi hYh`XUfUi Z`\]bž`XUgg`X]Y`A 0[ `]W`\_Y]h  
VYghUbXž`XUgg`XYf`A cdYXZU`fYf`gW`k YfYfY`J Yf`Y`hni b[ Yb`Yf`]hYb  
\Uhž`X]Y`Y]bY`fUgW`Y`a`YX]n]b]gW`Y` `b`hYfj Yb]cb`YfZcfXYfhYb`" `b  
8Yi hgW`UbX`YI ]gh]YfhY]b`[ i`h`cf[ Ub]g]YfhYg`B chZU``a`YX]n]b!  
GmghYa`ž`XUg`g]WXYfghY`hž`XUgg`DUh]Yb`hYb`gW`bY`gha`0[ `]W`]b`Y]bY  
[ YY][ bYhY`?`]b]\_`[ YVfUW`h`k YfXYb`"@Ui h`XYa`8Yi hgW`Yb`F chYb  
?fYi n`fBF?`E`g]bX`j cf`U`Ya`[ i`h`Ui g[ YV]`XYhY`F Yhhi b[ g`f`ÀZ`hY`i bX  
X]Y`Yb[ Y`Ni gUa`a`YbUfVY]h]j cb`F Yhhi b[ gX]Ybghi bX`?`fUb`\_Yb`Ui g  
Z0f`XYb`H`YfUd]YYfZc`[ `Yb`hgW`Y]XYbX"

8]Y`NY]hgdUbbY`nk ]gW`Yb`XYa`i bZU``i bX`XYf`a`YX]n]b]gW`Yb  
J Yfgcf[ i b[ ` \_Ubb`ZØf`X]Y`Dfc[ b`cgY`XYg`J Yf`YhnhYb`Yb`hgW`Y]XYbX  
gY]b``GhU]gh]\_Yb`nY][ Yb`ž`XUgg`gW`bY``Y`F`Yhhi`b[ ga`U» bU`a`Yb`X]Y  
, VYf`YVYbgW`UbW`b`Yf`YV`]W`ghY][ Yfb`\_`ÖbbYb``

K ]fhgW`UZh`]W`Y`5i`gk`]f`\_i`b[ Yb`j`cb  
J Yf`\_Y`f`gi`bZÄ``Yb

J Yf`\_Y`f`gi`bZÄ``Y`j`Yfi`fgUW`Yb`b]W`h`bi`f`a`YbgW``]W`Yg`@Y]Xž  
gcbXYfb`Ui`W`Yf`YV`]W`Y`k`]fhgW`UZh`]W`Y`?`cghYb``9]bY  
k`]ggYbgW`UZh`]W`Y`Ghi`X]Y`j`cb`XYf`5``]Ub`n`nY][ hž`XUgg`X]Y  
j`c`\_gk`]fhgW`UZh`]W`Yb`?`cghYb`j`cb`J`Yf`\_Y`f`gi`bZÄ``Yb`]b  
8Yi`hgW`UbX`Ä`f`]W`a`Y`f`Yf`Y`A`]]UfXYb`9i`fc`VYhfU[ Yb``8]YgY  
?`cghYb`gYhnYb`g]W`ni`gUa`a`Yb`Ui`g`a`YX]n]b]gW`Yb`5i`g[ UVYbž  
J Yf`i`ghYb`Xi`fW`5fVY]hgi`bZÄ`][ \_Y]h`i`bX`GUW`gW`ÄXYb`Ub  
: U`fnYi`[ Yb`i`bX`bZfUghfi`\_`hi`f``

⇒ a` : U``XYg`\_]Yf`[ YbUbbhYb`i`bZU``g`VY`Äi`Zh]g]W`XYf`Xi`fW`XYb  
HchU`gW`UXYb`Ua`A`cdYX`j`Yfi`fgUW`hY`GW`UXYb`Ui`Z`Yhk`U`%\$`\$\$  
9i`fc``8UfØVYf`\_]bUi`g`\_`ÖbbhYb``Ub[ Ub`U`hYbXY`[ Ygi`bX`Y]h]W`Y  
DfcV`Ya`Y`XYg`j`Yf`YhnhYb` : U`fYfg`ni`gÄh`]W`Y`?`cghYb`ZØf`X]Y  
; YgY``gW`UZhi`bX`gY]bY` : Ua`]]Y`bUW`g]W`n]Y`Yb``9g]gh`k`]W`h][ ž  
XUgg`gc`W`Y`i`bZÄ``Y`b]W`h`bi`f`U`g`9]bnY`ZÄ``Y`VYhfUW`hY`h`k`YfXYbž  
gcbXYfb`Ui`W`Y]b`Y]bYa`[ fÖ» YfYb`k`]fhgW`UZh`]W`Yb`?`cbhYi`h  
UbU`mg]Yfh`k`YfXYb``

8]Y`5i`Z`\_Äfi`b[ `ØVYf`G]W`Yf`Y]h]ja`GhfU» Ybj`Yf`\_Y`f`i`bX  
dfÄj`Ybh]j`Y`A`U» bU`a`Yb`g]bX`XU`Yf`j`cb`[ fc» Yf`6YXYi`hi`b[ ž`i`a  
X]Y`k`]fhgW`UZh`]W`Yb`i`bX`a`YbgW``]W`Yb`?`cghYb`j`cb  
J Yf`\_Y`f`gi`bZÄ``Yb`ni`a`]b]a`]YfYb``

8YhU]`g

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