

6Yhfi b\_YbYf'F UXZU\fyf']b'A Ya a ]b[ Yb  
ZÀ\fh']b'k UfhYbXYg'5i hc' '5bnY][ Y'Zc`[ h

9]b'VYhfi b\_YbYf'F UXZU\fyf'\_c`X]YfhY']b'A Ya a ]b[ Yb'a ]h  
Y]bYa 'k UfhYbXYb'5i hc" '5hYa U`\_c\c`hYgh'Yf[ UV'ØVYf'XYfY]  
Dfca ]`Y"

⊕'A Ya a ]b[ Yb'\_Ua 'Yg'Ua '5VYbX'ni 'Y]bYa 'JcfZU`ž'XYf'X]Y  
; YZU\fyb'XYg'ØVYfa Å»][ Yb'5`\_c\c`\_cbgi a'g'j YfXYi h]W'h'9]b  
(%! Å\af][ Yf'F UXZU\fyf'\_c`X]YfhY'Ui ZXYf'K YVYfghfU»Y'a ]h'Y]bYa  
k UfhYbXYb'5i hc"; `ØW\_]WYfk Y]gY'V']YV'XYf'F UXZU\fyf'  
i bj YfgY\fhž'i bX'XUg': U\fnYi [ 'k i fXY'b]W'h'VYgW'ÅX][ h" '8cW'XYf  
5i hcZU\fyf'VYa Yf\_hY'gW'bY`ž'XUgg'XYf'F UXZU\fyf'ghUf\_  
U`\_c\c`g]Yfh'k Uf"

9]b'\Ài Z][ Yf'C fh'ZØf'gc`WY'JcfZÀ`Yž'X]Y'b]W'h'bi f'X]Y  
6YhfcZYbYbž'gcbXYfb'Ui W'UbXYfY'JYf\_Y\fgHY]'bY\ a Yf  
[ YZÀ\fXYb" '8 Ug'A Yf\_k ØfX][ Y'Ub'X]YgYf'G]hi Uh]cb' ]ghž'XUgg'X]Y  
?c`g]cb\_Y]bYb'bYbbYbgk YfhYb'GUW'gW'UXYb'j Yfi fgUW'hY"  
HfchnXYa ' ]gh'X]Yg'Y]b'XYi h]W'Yg'NY]W'Ybž'XUgg'U`\_c\c`VYX]b[ hY  
: U\fhYbž'gY'Vgh'Ui Z'Y]bYa ' : U\ffUXž'Yfbgh\ UZhY'fYW'h]W'Y  
?cbgYei YbnYb'bUW'g]W'n]Y\Yb'\_ØbbYb"

### 5`\_c\c`\_cbgi a 'i bX'gY]bY': c`[ Yb

⊕a '5bgW'i gg'Ub'XYb'i bZU`k i fXY'Y]b'5hYa U`\_c\c`hYgh'Xi fW'X]Y  
Dc`nY]Xi fW'[ YZØ\fhž'XYf'Y]bYb'U'Ufa ]YfYbXYb'K Yfh'j cb'ØVYf  
XfY]'Dfca ]`Y'Yf[ UV" '8]YgYf'K Yfh' ]gh'b]W'h'bi f'\cW'ž'gcbXYfb  
ØVYfgW'fY]hY'h'X]Y' [ YgYhn']W'Z'Ygh[ Y'Y[ hYb'; fYbnYb'ZØf'XUg': U\fyb  
i bhYf'XYa '9]bZi gg'j cb'5`\_c\c`VY]k Y]hYa " ⊕'8Yi hgW'UbX' ]gh  
VYfY]hg'Y]b'K Yfh'UV'\$ž) 'Dfca ]`Y'ZØf'5i hcZU\fyf'ghfUZVUfž'k Å\fybX  
ZØf'F UXZU\fyf'UV'%ž\* 'Dfca ]`Y'Y]bY'Ya dZ]bX' ]W'Y'GhfUZY'Xfc\h"

8 Ug'J cf[ Y\Yb'XYf'Dc`nY]'b'gc`W\Y]bYa : U``]gh`\_Uf. 'K Ybb  
Ya UbX'gc`VYhfi b\_Yb']ghž'k ]fX'X]Y'K Y]hYfZU\fh'i a [ Y\YbX  
i bhYfVi bXYb"8]Yg:[ YgW\U`Ui W`]b'X]YgYa : U``8Yf'VYhfi b\_YbY  
: U\ffUXZU\fyf'k ]fX'bi b'a ]h'Y]bYf'5bnY][ Y'k Y[ Yb'Hfi b\_Yb\Y]h'a  
J Yf\_Y\f'fYW\ bYb'a ØggYbž'k Ug'Yfbgh\UZhY'fYW'h]W\Y  
?cbgYei YbnYb'bUW'g]W\`n]Y\Yb`\_Ubb"Gc`W\Y'G]hi Uh]cbYb'g]bX  
b]W'h'bi f'ZØf'XYb': U\fyf'gY`Vgh'f]g\_Ubhž'gcbXYfb'Ui W`ZØf'UbXYfY  
J Yf\_Y\fgH]'bY\ a Yfž'X]Y'Xi fW'gY]b' < UbXY'b' [ YZ\`fXYh'k YfXYb  
\_ØbbhYb"

9]b`\_c\Yf'Dfca ]`Yk Yfh`Äggh'XUfUi Z'gW`]Y» Ybž'XUgg'XYf'A Ubb  
a Ø[ `]W\Yfk Y]gY`VYfY]hg'a Y\fyfY'; `ÄgYf'5`\_c\c`\_`cbgi a ]Yfh  
\UhYž'VYj cf'Yf'g]W\`Ui Z'gY]b': U\ffUX'gW\k Ub[ "Gc`W\Y  
9bhgW\Y]Xi b[ Yb'nY][ Yb'cZi'Y]bY`VYgcf[ b]gYffY[ YbXY  
l bhYfgW`Ähni b[ `XYf'Y][ YbYb': Ä\][ \_Y]hYb'i bX'XYg'F]g]\_cg"  
F UXZU\fyb'i bhYf'5`\_c\c`Y]bZi gg`\_Ubb'ni `gW\k YfYb'l bZÄ`Yb  
ZØ\fybž'XU\Yf']gh'Yg'k ]W\h][ žj YfUbhk cfhi b[ gVYk i ggh'ni  
\UbXY'b"

## 8 ]Y'fYW\h`]W\Yb'`a d`]\_Uh]cbYb

8 ]Y'fYW\h`]W\Yb'A U» bU\ a Yb' [ Y[ Yb'X]Y': U\fh'i bhYf  
5`\_c\c`Y]bZi gg'g]bX' ]b'8Yi hgW`UbX'ghfYb[ '[ YfY[ Y'h'5V\Äb[ ]]  
j cb'XYf'GW\k YfY'XYg'J Yf[ Y\Ybg`\_Ubb'Yg'ni : Y`XghfUZYbž  
Di b\_hYb']b': `YbgVi f[ 'i bX'gc[ Uf'ni : U\fj YfVchYb`\_ca a Yb" ð  
X]YgYa : U``ghY\h'ZØf'XYb' ( %!Ä\`f][ Yb'Y]bY'; Y`XghfUZY`Ubž'i bX'Yf  
a i gg'a ]h'Y]bYa '9]bhfU[ ' ]b'gY]b'dc`nY]'W\Yg': Ø\fi b[ gnYi [ b]g  
fYW\ bYb"Gc`W\Y'J cfZÄ`Y`\_ØbbhYb'Ui W`\_Ub[ Zf]gh][ Y  
5i gk ]f\_i b[ Yb'Ui Z'gY]bY'J Yfg]W\Yfi b[ 'i bX'a Ø[ `]W\Y'ni \_ØbZh][ Y  
: U\fvYfYW\h][ i b[ Yb`\UVYb"

9]b'U`\_c\c`]g]YfhYf'F UXZU\fyf'ghY`h'b]W\h'bi f'Y]bY'; YZU\`f'ZØf'g]W\  
gY`Vgh'XUfž'gcbXYfb'Ui W`ZØf': i » [ Äb[ Yfž'UbXYfY'F UXZU\fyf'i bX  
: U\fnYi [ ZØ\fyf"8]Y'Dc`nY]'UddY``Yfh'XYg\U`V`Ub`U`Y  
J Yf\_Y\fgH]'bY\ a Yfžj YfUbhk cfhi b[ gVYk i ggh'a ]h'5`\_c\c`  
i a ni [ Y\Yb'i bX' ]b'gc`W\Yb'G]hi Uh]cbYb'XUg': U\ffUX`VYggYf  
ghY\Yb'ni ``UggYb"9]b'B UW\hVi g'cXYf'Y]b'HUI ]\_Ubb' ]b'gc`W\Yb  
: Ä`Yb'cZi'X]Y`VYggYfY'K U\`gY]b"

5`\_c\c`\_cbgi a ž]bgVYgcbXYfY`ja`GhfU»Ybj Yf\_Y\řž]gh`Y]b`H\Ya Už  
XUg`j]b`XYf` ; YgY`gW\UZh`cZi`X]g\_i h]Yfh`k`]fX`"5i Z\_`Àfi b[ `ØVYf`X]Y  
; YZU\fyb`i bX`?cbgYei YbnYb`]gh`YbhgW\Y]XYbXž`i a`gc`W\Y  
JcfZÀ`Y`ni`j`Yfa`Y]XYb`"»XYf`\Uh`X]Y`J`YfUbhk`cfhi b[ ž`g]W\Yf  
i bhYfk`Y[ g`ni`gY]b`i bX`F`ØW\_g]W\h`Ui`Z`UbXYfY`ni`bY\`a`Ybž`i a`XUg  
F]g]\_c`j`cb`l`bZÀ`Yb`ni`a`]b]a`]YfYb`"

»XYf`\Yi h][ Yb`NY]hž`XU`X]Y`8]g\_i gg]cb`i a`J`Yf\_Y\fgg]W\Yf\Y]h  
i bX`5`\_c\c`\_cbgi a`Ub`6YXYi hi b[ `[ Yk`]bbhž]gh`Yg`i bYf`Àgg`]W\ž  
XUg`6Yk`i ggghY]b`ZØf`X]Y` ; YZU\fyb`XYg` : U\fybg`i bhYf`5`\_c\c`ni  
gW\ÀfZYb`"GW\Øh`b]W\h`bi`f`Yi`W\`gY`Vghž`gcbXYfb`Ui`W\`UbXYfY  
J`Yf\_Y\fgH`Y]`bY\`a`Yf`"8Ybb`Y]bYg`]gh`g]W\Yf.`Hfi`b\_Yb\Y]h`Ua  
GhYi`Yf`cXYf` : U\ffUX`j`Yf`Ymh`b]W\h`bi`f`X]Y`Y][`YbY`G]W\Yf\Y]hž  
gcbXYfb`X]Y`G]W\Yf\Y]hj`]Y`Yf`UbXYfYf`"

; YgYhn`]W\Y`F`Y[`Y`i`b[`Yb`ni`f`Hfi`b\_Yb\Y]h`]a  
J`Yf\_Y\`f`

»8Yi hgW\`UbX`fY[`Y`h`XUg`GhfUZ[`YgYhnVi`W\`fGh`6Ł`X]Y  
?cbgYei YbnYb`hfi`b\_Yb\Y]hgVYX]b[`hYf`J`Yf\_Y\fgXY`]hY`"z`i`%\*  
Gh`6`VYgU[`hž`XUgg`Yg`ghfUZVUf`]ghž]a`Ni`ghUbX`XYf  
: U\fi`bhØW\h][`\_Y]h`Y]b` : U\fnYi`[`ni`ZØ\fyb`"6Y]`Y]bYa  
6`i`hU`\_c\c`k`Yfh]j`cb`\$ž`Dfca`]`Y`i`bX`\Ø\Yf`]gh`XYf` : U\fyf`VYfy]hg  
U`g`ZU\fi`bhØW\h][`Ubni`gY\Yb`"5V`%ž%Dfca`]`Y`[`]h`X]Yg`Ui`W\`c\`bY  
k`Y]hYfY`6Yk`Y]gY`XYf` : U\fi`bhØW\h][`\_Y]h`8]YgY`[`YgYhn`]W\Yb  
6Ygh]a`a`i`b[`Yb`gc`Yb`b]W\h`bi`f`X]Y`J`Yf\_Y\fgg]W\Yf\Y]h`Yf\Ø\Ybž  
gcbXYfb`Ui`W\`XUg`6Yk`i`ggghY]b`ZØf`X]Y` ; YZU\fyb`j`cb`5`\_c\c`]a  
GhfU»Ybj`Yf\_Y\`f`gW\ÀfZYb`"

8]Y`GhfUZyb`ZØf`Hfi`b\_Yb\Y]h`]a`J`Yf\_Y\`f`\_ØbbYb`Y`bUW\`GW\k`YfY  
XYg`8Y`]hg`j`Uf]]YfYb`"BYVYb` ; Y`XghfUZyb`\_ØbbYb`Ui`W\  
: U\fj`YfVchY`i`bX`Di`b\_hY`]b` : YbgVi`f[`j`Yf\Àb[`h`k`YfXYb`"»a` : U`  
XYg`(%!`À\`f][`Ybž`XYf`a`]h`ØVYf`XfY]`Dfca`]`Y`i`bhYfk`Y[`g`k`Ufž]gh  
a`]h`Y]bYf`fY`Uh]j`Yb`<`ÀfhY`XYf`?cbgYei`YbnYb`ni`fYW\`bYbž`X]Y  
Ui`W\`Y]b`5ffYghj`YfZU\fyb`bUW\`g]W\`n]Y\Yb`\_ØbbhY`"

5`\_c\c`dfÀj`Ybh]cb`i`bX`J`Yf\_Y\fgg]W\Yf\Y]h

8]Y`DfcV`Ya Uh]\_`XYg`5`\_c`c`gW\ UXYbg`]a `GhfU» Ybj Yf\_Y`f`]gh`]b  
8Yi hgW\`UbX`gY]h`d\`fYb`Y]b`YfbghYg`H\Ya U``GhUh]gh]\_Yb`XYg  
6i bXYga ]b]ghYf]i a`g`ZØf`J Yf\_Y`f`i bX`X][`]hU`Y`b`ZfUghfi`\_hi`f  
nY][`Ybž`XUgg`Y]b`Yf\`YV`]W\Yf`5bhY]`XYf`J Yf\_Y`f`gi bZ`Y`Xi`fW\  
5`\_c`c`j`Yfi`fgUW\`h`k`]fX``GW\`Åhni`b[`Yb`ni`Zc`[`Y`k`UfYb`]a`d\`f  
&\$\$`a`Y`f`U`g`%\$i`XYf`h`ØX`]W\Yb`J Yf\_Y`f`gi bZ`Y`Y  
U`\_c`c`VYX]b[`h`8]YgY`NU\`Yb`j`YfXYi`h`]W\Yb`X]Y`B`chk`YbX][`\_]h  
j`cb`DfÅj`Ybh]cbga`U»`bU\`a`Yb`

J YfgW\]YXYbY`C`f[`Ub]gUh]cbYb`i`bX`?`Ua`dU[`bYbž`k`]Y  
VY]gd]Y`gk`Y]gY`X]Y`5\_h]cb`J Yf\_Y`f`gg]W\Yf\`Y]h`ž`gYhnhYb`g]W\`ZØf  
5i`Z`\_`Åfi`b[`i`bX`DfÅj`Ybh]cb`Y]b``G]Y`n]Y`Yb`XUfUi`Z`UVž`X]Y  
6Yj`Ø`\_`Yfi`b[`ØVYf`X]Y`;`YZU\`fYb`j`cb`5`\_c`c`Ua`GhYi`Yf`ni  
]bZcfa`]YfYb``8`Uni`[`Y\`ØfYb`b`Zcfa`Uh]cbgj`YfUbghU`hi`b[`Ybž`D`U`UhY  
i`bX`Ui`W\`X][`]hU`Y`?`Ua`dU[`bYbž`X]Y`]bgVYgcbXYfY`Øb[`YfY`:`U\`fYf  
UbgdfYW\Yb`

## GhUh]gh]\_Yb`ni`f`Hfi`b`\_Yb`Y]h`Ua`GhYi`Yf`

Hfchn`]bhYbg]j`Yf`5i`Z`\_`Åfi`b[`g]bX`X]Y`NU\`Yb`XYf`U`\_c`c`]g]YfhYb  
J Yf\_Y`f`ghY]`bY\`a`Yf`U`Ufa`]YfYbX``@Ui`h`Y]bYf`Gh`X]Y`XYg  
GhUh]gh]gW\Yb`6i`bXYgUa`hYg`Ui`g`XYa`d\`f`&\$%-`U`VYb`i`&i`XYf  
VYZfU[`hYb`5i`hc`ZU\`fYf`Ub[`Y[`YVYbž`gW\`cb`Y]ba`U`i`bhYf  
5`\_c`c`Y]bZi`gg[`YZU\`fYb`ni`gY]b``8]Yg`i`bhYfghfY]W\`h`X]Y  
<`YfUi`gZc`fXYfi`b[`ž`XUg`6Yk`i`gghgY]b`ZØf`X]Y`;`YZU\`fYb`ni`gW\`ÅfZYb  
i`bX`Y]bY`?`i`hi`f`XYf`B`ØW\`hYfb`Y]h`]a`GhfU»`Ybj`Yf\_Y`f`ni`ZØfXYfb`

I`a`X]Y`G]hi`Uh]cb`ni`j`YfVYggYfbž`Zc`fXYfb`9i`dYfhYb`i`bhYf`UbXYfYa  
ghfYb[`YfY`?`cbhfc``Yb`Xi`fW\`X]Y`Dc`]nY]`gck`]Y`X]Y`GW\`k`Ub`\_i`b[`XYf  
GhfUZyb`ZØf`U`\_c`c`VYX]b[`hY`J`Yf\_Y`f`fgXY`\_]hY``9]b`Ub[`YghfYVhYg  
N]Y``]gh`Ygž`X]Y`NU\`XYf`J`Yf\_Y`f`gi`bZ`Y`ni`gYb`\_Yb`i`bX`XUa`]h  
@YVYbg[`YZU\`fYb`ZØf`U`Y`J`Yf\_Y`f`ghY]`bY\`a`Yf`ni`a`]b]a`]YfYb`  
A`U»`bU\`a`Yb`k`]Y`X]Y`Dfca`]`Y[`fYbnY`ZØf`:`U\`fUbZ`Åb[`Yf`i`bX`X]Y  
9]bgW\`f`Åb`\_i`b[`XYf`:`U\`fVYfYW\`h][`i`b[`VY]`k`]YXYf\`c`hYf  
Hfi`b`\_Yb`Y]h`gc``Yb`ni`gÅh`]W\`X`Uni`VY]hfU[`Ybž`X]Y`NU\`XYf  
U`\_c`c`VYX]b[`hYb`J`Yf\_Y`f`gi`bZ`Y`ni`fYXi`n]YfYb`

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