

9]bVfi W\ 'b' < c \ Yb`]a Vi f[ . 'Dc`]nY]'b]a a h  
HÄhYf`bUW\ 'J YfZc`[ i b[ g^U[ X`ZYgh

Nk Y]'9]bVfYW\Yf`k i fXYb`]'b`Y]bYf`5fnhdfUI ]g`]'b`<U[ Yb!  
<c\Yb`]a Vi f[ `ZYgh[ Ybca a Ybž`bUW\XYa `5bk c\bYf  
j YfXÄW\h][ Y`5\_hj] ]hÄhYb`a Y`XYhYb"

⊕`<U[ Yb!<c\Yb`]a Vi f[ `Ua `Yg`Ua `gdÄhYb`5VYbX`XYg`%, "  
5i [ i gh&\$&( `ni `Y]bYa `j Yfgi W\hYb`9]bVfi W\ 'b`Y]bY`5fnhdfUI ]g"  
9]bY`Ui Za Yf\_gUa Y`NYi [ ]b`ghY`hY`[ Y[ Yb`&` `i \f`Y]b  
i b[ Yk `0\b`]W\Yg`@]W\hgd]Y`]'b`XYf`VY`U`bXY`bXYb`9]bf]W\hi b[ `ZYghž  
U`g`HUGW\Yb`Ua dYb`]W\h`Ui g`Y]bYa `: YbghYf`ghfU\`hY`"GcZcfh  
U`Ufa ]YfhY`g]Y`X]Y`Dc`]nY]ž`X]Y`XUfUi Z]b`a ]h`Y]bYa `ghUf`Yb  
5i Z[ YVch`Ub`6YUa hYb`XUg`; YVÄi XY`i a ghY`hY"

8]Y`G]hi Uh]cb`Yg\_U`]YfhYž`U`g`X]Y`VY]XYb`HÄhYfž`X]Y`[ YfUXY`XUVY]  
k UfYbž`Xi fW\`Y]b`: YbghYf`ni `Ybh\_ca a Ybž`X]Y`9]bgUhn\_fÄZhY  
VYa Yf\_hYb`"⊕`Y]bYa ` \Y\_h]gW\Yb`A ca Ybh`nc[ Yb`g]Y`g]W\  
ni bÄW\gh]bg`⊕`bYfY`XYg`; YVÄi XYg`ni f0W`"⊕`f`:`i W\h] Yfgi W\  
j Yf`]YZ`YXcW\`U`Yg`UbXYfY`U`g`YfZc`[ fY]W\.`5i Z`XYf  
[ Y[ Yb0VYf`]Y[ YbXYb`GY]hY`XYf`5fnhdfUI ]g`k i fXYb`g]Y`j cb`XYf  
Dc`]nY]`[ YghY`h`i bX`]'b`ZU[ fUbh]`ZYgh[ Ybca a Yb"

8]Y` : YghbU\ a Y`i bX`X]Y`UbgW\`]Y» YbXYb  
9fa ]hh`i b[ Yb

K Ä\fybX`X]Y`Dc`]nY]`]a `⊕`bYfYb`XYf`DfUI ]g`bUW\`k Y]hYfYb  
6Yk Y]gYb`gi W\hYž`YbhXYW\_hYb`X]Y`6YUa hYb`]'b`XYf`BÄ\Y`Y]b  
j YfXÄW\h][ Yg`: U\fnYi [ "8]YgYg`\UhhY`cZZYbVUf`X]Y`F c`Y`Y]bYg  
:`i W\hk U[ Ybg`0VYfbca a Yb`": 0f`X]Y`gW\`bY`ghY`5i Z`Äfi b[ `XYg  
JcfZU`g`gcf[ hY`Y]b`8]Ybgh`i bXž`XYf`XYb`a i ha U`]'W\Yb`: U\YfYf  
Ui Zgd0fhY`"8]YgYf`\UhhY`g]W\`]'b`Y]bYa `bU\Yb`; YV0gW\`j YfghYW\_hž

j Yfgi W h'g]W ž'XYb'Dc`n]ghYb'ni 'Ybhn]Y\Ybž'k i fXY'YXcW'j cb  
XYa '8]Ybgh\i bX'[ YV]ggYbž'k cXi fW'gY]bY': 'i W h'YbXYhY"  
5bgW`]Y» YbX'k i fXY'XYf'A Ubb'ni f'a YX]n]b]gWYb'6Y\UbX'i b[ ']b  
Y]b'?fUb\_Yb\Ui g'[ YVfUW'h"

6Y]'XYf'8i fW'gi W i b[ 'XYg'HUhc fhg'ghY''hY'X]Y'Dc`nY]'b]W h'bi f'X]Y  
VY]XYb'9]bVfYWYfž'gcbXYfb'Ui W 'Y]bY'J]Y'nU\`j cb  
9]bVfi W'gk Yf\_nYi [ Yb'g]W'Yf"'8Uni 'nÅ\`hYb'i bhYf'UbXYfYa  
<UbXgW'i \Yž'Ghi fa \Ui VYb'i bX'Y]b'6fYWY]gYbž'k Ug'X]Y]'b  
j c`Ya 'l a ZUb[ '\_f]a ]bY`Yb'5Vg]W hYb'XYf'HÅhYf'i bhYfghfY]W'h"  
8]YgY'6Yk Y]gY'k i fXYb'i a [ Y\YbX'ni a 'Nk YW\_`k Y]hYfYf  
9fa ]hhi b[ Yb'Ub'X]Y'<U[ YbYf'?f]a ]bU'dc`nY]'ØVYf[ YVYb"

8]Y'gW'by`Y'F YU\_h]cb'XYf'Dc`nY]'i bX'X]Y'K UW'gUa \_Y]h'XYf  
NYi [ ]b'nY][ Ybž'k ]Y'k ]W'h][ 'Yg']ghž'Ui Za Yf\_gUa 'ni 'gY]b'i bX  
J YfXÅW'h][ Yg'i a [ Y\YbX'ni 'a Y'XYb"'8i fW'X]Y'?ca V]bUh]cb'j cb  
6Øf[ YfYb[ U[ Ya Ybhi bX'dfcZYgg]cbY`Ya 'Dc`nY]Y]bgUhm'\_cbbhY  
Y]b'dchYbn]Y`Yf'GW'UXYb'UV[ Yk YbXYhi bX'X]Y'HÅhYf'X]b[ ZYgh  
[ Ya UW'h'k YfXYb"

## K ]W'h][ Y'5gdY\_hY'XYf'9]bVfi W'gd fÅj Ybh]cb

9]b'gc`W'Yf'J cfZU`k ]fZh'b]W h'bi f': fU[ Yb'ni f'G]W'Yf\Y]h]b  
K c\ b[ Y[ YbXYb'Ui Z'gcbXYfb'j YfXYi h]W'h'Ui W'X]Y  
Bch'k YbX][ \_Y]h'fÅj Ybh]j Yf'A U» bU\ a Ybž'i a '9]bVfØW'Y'ni  
j Yf\]bXYfb"'9g']gh'YbhgW'Y]XYbXž'XUgg'gck c\`X]Y'Dc`nY]'U'g'Ui W  
X]Y'5bk c\ bYf'a 'ghÅbX][ Yb'8]U'c[ 'ghY\Ybž'i a 'Y]b'g]W'YfYg  
l a Z'X'ni '[ Yk Å\`f'Y]ghYb"

J YfUbghU'hi b[ Yb'ni f'5i Z\_`Åfi b[ 'ØVYf'9]bVfi W'gW'i hm'\_ØbbYb  
\Y'ZYbž'X]Y'6Yj Ø`\_Yfi b[ 'ni 'gYbg]V]'g]YfYb'i bX'dfÅj Ybh]j Y  
A U» bU\ a Yb'ni 'ZØfXYfb"'8]Y'A YbgW'Yb'gc`hYb'Yfa i h][ h'k YfXYbž  
Ui ZY]bUbXYf'ni 'UW'hYb'i bX'ja 'Nk Y]Z'X]Y'ni ghÅbX][ Yb'6Y\ØfXYb  
ni ]bZcfa ]YfYbž'i a 'Å\`b`]W' '[ Y'U[ YfhY'G]hi Uh]cbYb' ]b'Ni \_i bZh'ni  
j Yfa Y]XYb"

8 Yf'? cbhYI h'j cb'9]bVfØW'Yb' ]b'8Yi hgW'`UbX

9]bVfØWY'g]bX' ]b'8Yi hgW`UbX`Y]b`Xi fWUi g`fY`Yj UbhYg`H\Ya Už  
XUg'gck c\` [ YgY`gWUZh]WY`U'g`Ui W`k ]fhgWUZh]WY  
5i gk ]f\_ i b[ Yb`\Uh" ð`XYb`YhnhYb`š\`fYb`]gh`X]Y`NU\`XYf  
K c\bi b[ gY]bVfØWY`i bX`UbXYfYf` : cfa Yb`XYg`8]YVghU\`g`]b  
j ]Y`Yb`FY [ ]cbYb`Ub[ Ygh]Y[ Ybž`k Ug`ni `Y]bYf`VYgcf[ b]gYffY[ YbXYb  
K U\fbY\`a i b[ `XYf`G]WYf\Y]h`b`XYf`6Yj Ò`\_Yfi b[ `[ YZØ\fh`\Uh"  
GhUh]gh]\_Yb`XYg`6i bXYg`\_f]a ]bU`Ua hg`f6? 5Ě`nY][ Ybž`XUgg`]a `š\`f  
&\$&&ØVYf` , ) "\$\$\$`K c\bi b[ gY]bVfØWY`fY [ ]ghf]Yfh`k i fXYbž`k Ug  
Y]bYb`\_`Y]bYb`FØW\_[ Ub[ `[ Y[ YbØVYf`XYb`J cf`U\`fYb`XUfghY`Yb  
\_Ubbž`YXcW`k Y]hYf\]b`Y]bY`\c\Y`NU\`]ghž`X]Y`j ]Y`Y`6Øf[ Yf  
VYi bfi \][ h`8]YgY`9f`\_Ybhb]ggY`j YfXYi h`]WYbž`k ]Y`k ]W]h][  
DfĀj Ybh]cbga U» bU\`a Yb`i bX`gW`bY`Y`FYU`\_h]cbYb`XYf`Dc`nY]  
g]bX"

< Āi Z][ `g]bX`9]bVfYWYf` [ Yn]Y`h`Ui ZVYgh]a a hY`CV`Y`\_hY`Ui gž`cZh  
gc`WY`a ]h'gW`k UWYf`G]WYf\Y]hgj cf`\_Y\fi b[ "`8Yf`U`hi Y`Y  
J cfZU`]]b`<U[ Yb!<c\Yb`]a Vi f[ `nY][ hž`k ]Y`k ]W]h][ `Yg`]ghž`XUgg`X]Y  
6Yj Ò`\_Yfi b[ `Ui Za Yf`\_gUa `]gh`i bX`j YfXĀW]h][ Y`5`\_hj ]hĀhYb  
a Y`XYh`8]Y`FYU`\_h]cb`XYf`Dc`nY`]]b`X]YgYa ` : U`ž`a ]h`Y]bYa  
[ Yn]Y`hYb`9]bgUhn`i bX`XYf`gW`bY`Yb` : YghbU\`a Y`XYf`HĀhYfž  
j YfXYi h`]W]h`X]Y`6YXYi hi b[ `Y]bYg`[ i h`Zi b`\_h]cb]YfYbXYb  
G]WYf\Y]hgUddUfUHYg"

8]Y`F`c``Y`XYf`Dc`nY]`VY]`XYf`6Y\_Āa dZi b[  
j cb`9]bVfi W`\_f]a ]bU`]hĀh

8]Y`Dc`nY]`gd]Y`h`Y]bY`YbhgWY]XYbXY`F`c``Y`VY]`XYf`6Y\_Āa dZi b[  
j cb`9]bVfi W`\_f]a ]bU`]hĀh`]b`8Yi hgW`UbX`"BYVYb`XYf  
i ba ]hhY`VUFYb`FYU`\_h]cb`Ui Z`J cfZĀ`Yž`k ]Y`]a ` : U`]]b`<U[ Yb!  
<c\Yb`]a Vi f[ ž`Yb[ U[ ]Yfh`g]Y`g]W`Ui W`]b`XYf`DfĀj Ybh]cb`"  
Dfc[ fUa a Y`ni f`5i Z`\_Āfi b[ `XYf`6Yj Ò`\_Yfi b[ `ØVYf  
8]YVghU\`gW`i hn`i bX`G]WYf\Y]hgj cf`\_Y\fi b[ Yb`gck ]Y`X]Y  
Ni gUa a YbUfVY]h`a ]h` : Ya Y]bXYb`g]bX`nYbhfU`Y`A Yh\cXYbž`X]Y  
ni f`J Yff]b[ Yfi b[ `XYf`9]bVfi W`gnU\`Yb`VY]hfU[ Yb`gc``Yb`"

9]b`k Y]hYfYf`k ]W]h][ Yf`5gdY`\_h]gh`X]Y`j Yfk YbXi b[ `a cXYfbYf  
HYW`bc`c [ ]Y``8]Y`Dc`nY]`gYhnh`ni bY\`a YbX`Ui Z`]bhY`]] [ YbhY  
GmghYa Yž`i a `HĀhYf`gW`bY`Yf`ni `]XYb]h]Z]n]YfYb`i bX`ni ] YfZc`[ Yb`"

8 Ug'9]bgYhnYb'j cb', VYfk UWxi b[ g\_Ua YfUg'jb'[ YZÀ\ fXYhYb  
; YV]YhYb'i bX'X]Y'Bi hni b[ 'j cb'8 UhYbUbU`mgYb'ni f'9f\_Ybbi b[  
j cb'?f]a ]bU`]hÀhga i ghYfb'g]bX'bi f`Y]b][ Y'A U» bU\ a Ybž'X]Y'ni f  
9f\ Ò\i b[ 'XYf'G]W\Yf\Y]h'VY]hfU[ Yb'\_ÒbbYb" Gc`W\Y'GhfUHy[ ]Yb  
nY][ Yb'Ui W\ž'XUgg'X]Y'Dc`]nY]UfVY]hik Y]h'ØVYf'XUg'i ba ]hhY`VUFY  
9]b[ fY]ZYb`\]bUi g[ Y\h'i bX'dfcU\_h]j Y'5bgÀhnY'ni f  
J YfVfYW\YbgVY\_Àa dZ b[ 'j YfZc`[ h'k YfXYb"

A Y\ f' ðZcfa Uh]cbYb'ni 'XYb'6Ya Ø\i b[ Yb'XYf'Dc`]nY]i bX'XYb  
bYi YghYb'GhUh]gh]\_Yb'ni f'9]bVfi W\g\_f]a ]bU`]hÀh'Z]bXYb'G]Y'Ui ZXYf  
K YVgY]hY'XYg'6i bXYg\_f]a ]bU`Ua hYg"

8 YhU]`g

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