

5a UhYi fZi » VU``']b 'GUW gYb. 'B ]W hV]bÀfY  
i bX 'HfUbg!DYfgcbYb '\_Àa dZYb 'i a  
HY]` \ UVY

⇒ 'GUW gYb '\_Àa dZYb 'b]W hV]bÀfY 'i bX 'hfUbg! 'Gd]Y`Yf.]bbYb  
ZØf; `Y]W VYfYW h][ i b[ 'ja '5a UhYi fZi » VU``ž'k À\ fYbX 'XYf  
G: J 'fYW h]W Y ' < ØfXYb 'Ui ZVUi h"

8]Y`5i gY]bUbXYfgYhni b[ 'i a 'XYb'5a UhYi fZi » VU``'i bX`X]Y  
Ni [ Ub[ gVYX]b[ i b[ Yb`ZØf'b]W hV]bÀfYž'hfUbg!'i bX  
]bhYf[ YgW `YW h]W Y`DYfgcbYb`]gh'b]W h'bi f'Y]b`gdcfhdc`h]gW Yg  
H\Ya Už'gcbXYfb`\Uh'Ui W`k Y]hfY]W YbXY`[ YgY`gW UZh]W Y  
⇒ a d`\_Uh]cbYb" '5a '6Y]gd]Y`XYf'G]hi Uh]cb`XYg'F chYb`GhYfbg  
@Y]dn][ 'k ]fX`XYi h]W ž'k ]Y`k ]W h][ 'Y]bY`]b`\_i g]j Y` < U`hi b[ 'ja 'Gdcfh  
]gh"

9]b 'GW f]hh'j cf'i bX`nk Y]`ni fØW\_

Hfchn'ZcfhgW f]hh]W Yf'F Y[ Y`i b[ Yb`XYg'8Yi hgW Yb  
: i » VU``j YfVUbXg'fB: 6Ł'ni f'GU]gcb'&\$&&#&' ž'X]Y`X]Y': ØfXYfi b[  
j cb'J]Y`ZU`hi bX`X]Y`6YgY]h][ i b[ 'j cb'8]g\_f]a ]b]Yfi b[ 'ni a 'N]Y`  
\UVYbž'V`Y]Vh'XYf'Ni [ Ub[ 'ZØf'nU\`fY]W Y`Gd]Y`Yf.]bbYb'k ]Y`æb']b  
GUW gYb`ghUf`\_Y]b[ YgW fÀb`\_h" 'æb']XYbh]Z]n]Yfh'g]W `U`g`b]W hV]bÀfž  
k Ug`]b`XYf`V]g\Yf][ Yb`F Y[ Y`ghfi \_hi f'cZh'ni 'J Yfk ]ffi b[ 'i bX  
?cbZ]\_hYb`ZØ\fh" '8]Y`G]hi Uh]cb`j YfXYi h]W h'b]W h'bi f'X]Y  
<YfUi gZcfXYfi b[ Ybž'X]Y`ja '5a UhYi fZi » VU``VYghY\Ybž'gcbXYfb  
nY][ h'Ui W`'Ui Zž'k ]Y`⇒ a d`Ya Ybh]Yfi b[ Yb`j cb`F Y[ Y`k Yf`\_Yb`]b`XYf  
DfUI ]g`Ub`i bhYfgW ]YX`]W Y`J Yf\U`hYbgk Y]gYb`XYf  
@UbXYgj YfVÀbXY`gW Y]hYfb`\_ØbbYb"

8Yf': U``æb]`i bX`XYf`F chY`GhYfb`@Y]dn][

æ 'A Åfn'&\$&(' \_Ua 'Yg'ni 'Y)bYa 'J cfZU`ž'XYf'X]Y'DfcV`Ya Uh]\_ 'Ubg  
@]W h'VfUW hY. '8 Ug' [ Yd`UbhY`Gd]Y`XYg'F chYb`GhYfbg`@Y]dn][  
k i fXY`UV[ YgU[ hž'k Y]'ni 'k Yb][ 'gd]Y`VYfYW h][ hY`A ]h[ `]YXYf  
Ubk YgYbX`k UfYb" '<]bhYf[ fi bX`]ghž'XUgg`æb]'i bX`j ]Yf`k Y]hYfY  
Gd]Y`Yf.]bbYb`XYg'F G@Ui Z[ fi bX`ZY`YbXYf`B UW k Y]gY`ØVYf`]\fY  
; YgW`YW h]X]Yb]hÅh] ca `GÅW g]gW Yb` : i » VU`j YfVUbX`fG: J Ł`X]Y  
Gd]Y`VYfYW h][ i b[ `Yb hnc[ Yb`k i fXY" '8 ]Yg`U h`k Y]hYf]W YbXY  
: c` [ Yb`ZØf`X]Y`A UbbgW UZž`XU`Gd]Y`Y`UV[ YgU[ h`k YfXYb`a i gghYb"

æ 'J Yf[ `Y]W`XUni` [ ]Vh`Yg`]a`Ub[ fYbnYbXYb`GUW gYb!5b`U`h`Y]bY  
XYi h`]W`c ZYbYfY`<YfUb[ Y`Yb gk Y]gY. '<]Yf`fY]W h`Y]b`X[ h]!  
9f[ Åbni b[ gUi gk Y]gž`i a`X]Y`Gd]Y`VYfYW h][ i b[ `ni`Yf`Ub[ Yb" `GUa  
A Ø`Yf`j ca` : i » VU`j YfVUbX`GUW gYb!5b`U`h`VYghÅh][ hYž`XUgg`Y]bY  
GY`VghUi g\_i bZi[ YbØ[ h"

J ]Y`ZU`h`]a` : i » VU` `` `Y]b` [ YgY`gW UZh`]W Yg  
A i gg

8]Y`DfcV`Ya Uh]\_ž'a ]h`XYf`b]W hV]bÅfY`i bX`hfUbg`DYfgcbYb`]a  
: i » VU` ``\_cbZfcb]Yfh`k YfXYbž`k ]fZh`b]W h`bi f` : fU[ Yb`ØVYf`XYb  
Ni [ Ub[ `ni a`Gdcfh`Ui Zž`gcbXYfb`Ui W`ØVYf`X]Y`5\_nYdhUbn`j cb  
J ]Y`ZU`h`]b`XYf` ; YgY`gW UZh`'7`f]gh]Ub`Fi Xc`d`ž`E i YYf!  
6YUi ZhfU[ hYf`XYg`8: 6ž`YVh`Yfj cfž`XUgg`Yg`a Y`f`U`g`bi f`X]Y  
Cf[ Ub]gUh]cb`Y]bYg`Gd]Y`g`VYb`Øh][ Yž`i a`X]Y`dgmW ]gW Y`G]W Yf`Y]h  
U`Yf`Gd]Y`Yf.]bbYb`ni` [ Yk Å`f`Y]ghYb" '<]Yf`VYghY`h`Y]b` [ fc» Yf  
<UbX`i b[ gVYXUfZž`i a`J cfi fhY]Y`UVni VUi Yb`i bX`X]Y` ðhY[ fUh]cb  
U`Yf` ; YgW`YW hYf]X]Yb]hÅhYb`ni`ZØfXYfb"

F YW h`]W Y`5i gY]b UbXYfgYhni b [ Yb`i bX  
Ni \_i bZhgdYfgdY\_h]j Yb

8Yf`F chY`GhYfb`@Y]dn][ `U h]a` : YVfi Uf`&\$&(`fYW h]W Y`GW f]hY  
[ Y[ Yb`XYb`G: J`Y]b[ Y`Y]hYhž`i a`X]Y`Yb hnc[ YbYb`Gd]Y`d`ÄggY  
ni fØW\_ni Yf`U`h`Yb" '8 Ug`gÅW g]gW Y`Gdcfh[ Yf]W h`U`h`VYfY]hg  
YbhgW ]YXYbž`XUgg`X]Y`DÄggY`k Å`fYbX`XYg`J YfZU`fYbg  
ZfY][ Y[ YVYb`k YfXYb`gc`Yb" '8 YbbcW`V`Y]Vh`i b[ Yk ]ggž`k ]Y`X]Y  
Gd]Y`VYfYW h][ i b[ Yb`ZØf`X]Y`\_ca` a`YbXY`GU]gcb`]a`5i [ i gh`&\$&(&

Ui ggY\Yb'k YfXYb" 'a 'Bcj Ya VYf'hf]hh'ni XYa 'Y]b'bYi Yg  
GY`VghVYgh]a a i b[ g[ YgYh' ]b' ?fUZh'XUg'X]Y'FU\ a YbVYX]b[ i b[ Yb  
ZØf' [ YgW\`YW h]WY' ðYbh]hÅhi bX'BUa YbgÅbXYfi b[ 'bYi 'fY[ Y'b  
k ]fX"

## 9]b'6`]W\_ ]b'X]Y'Ni \_i bZh

: Øf'j ]Y'Y'Gd]Y'Yf.]bbYb']gh'Yg'j cb'YbhgWY]XYbXYf'6YXYi hi b[ ž  
XUgg'g]W\X]Y'FY[ Y'i b[ Yb' ]a '8: 6'Ub'X]Y' [ YgY`gW UZh]WYb  
9bhk ]W\_ i b[ Yb'UbdUggYb"5\_h]j ]gh]b'ž `]U'A cbfc'ZcfXYfh'Y]bY' \_Uf`  
I bhYfgWY]Xi b[ 'nk ]gWYb'XYb'j YfgW ]YXYbYb  
; YgW\`YW h]X]Ybh]hÅhYb'i bX'Y]bY'ZU]fY'6Y\UbX'i b[ 'U`Yf  
Gd]Y'Yf.]bbYbž'i bUV\Åb[ ] [ 'j cb'\fYa 'GhUhi g'cXYf']\fYf' ðYbh]hÅh"  
8]Y'<YfUi gZcfXYfi b[ Ybž'j cf'XYbYb'XYf'G: J'ghY\hž'nY][ Ybž'XUgg  
X]Y'5\_nYdhUn'j cb'J ]Y'ZU'h'Y]bY'h]YZYfY' [ YgY`gW UZh]WY  
8]g\_i gg]cb'YfZcfXYfh'i bX'b]W\h'bi f'Ub'XYb'Gdcfh[ Yf]W\hYb'XYf  
FY[ ]cb'j Yf\UbXY'h'k YfXYb'gc`hY"

8]Y'5i gY]bUbXYfgYhni b[ 'i a 'X]Y'Gd]Y'VYfYW h][ i b[ Yb'j cb  
b]W\hV]bÅfYb'i bX'hfUbg'DYfgcbYb' ]a 'gÅW'g]gWYb'5a UhYi fZi » VU`  
]gh'U`gc'b]W\h'bi f'Y]b'GdcfhdfcV`Ya ž'gcbXYfb'Y]b'5VV]`X'XYf  
[ YgY`gW UZh]WYb'5i gY]bUbXYfgYhni b[ 'a ]h' ðYbh]hÅhi bX'J ]Y'ZU'h"  
8Yf'5i g[ Ub[ 'X]YgYg'J YfZU\ fYbg'i bX'X]Y'ni \_ØbZh][ Yb'FY[ Y'i b[ Yb  
\_ØbbhYb'f]W\h' b[ gk Y]gYbX'XUZØf'gY]bž'k ]Y'XYf'Gdcfh'a ]h'J ]Y'ZU'h  
i a [ Y\h' 'i bX'XUa ]h'Ui W\ž'k ]Y'X]Y'; YgY`gW UZh]bg[ YgUa h'a ]h  
X]YgYb'H\Ya Yb'i a [ Y\h"

f'BUa Y'[ YÅbXYfh

' B 5;

8YhU]`g

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