

### A ÀfWX Yb \ UZhY '9bhXYW\_i b[gfY]gY. '?]bXYf Yf`YVYb 'XYb 'K U`X 'XYf'; f]a a g

%+ `?]bXYf`Yf`YVhYb`Y]bYb`a ÀfWXYb\UZhYb`Jcfa ]hhU[ `]a GhUXhk U`Xž`a ]h`; YgWX]WXhYbž`FÀhgY`b`i bX`@YV\_i WXYb`i bhYf XYf`@Y]hi b[ `j cb`8cf]g`; U]» a U]Yf"

#D Y]bYa "Ui ZfY[YbXYb"i bX'\_fYUh]j Yb '5VYbhYi Yf'Xi fW 'XYb GhUXhk U'X'\UVYb'%+'?]bXYf'a ]h'j ]Y`: fYi XY'X]Y'K Y`h'XYf'; f]a a g A ÀfW Yb YbhXYW\_h" I bhYf'XYa 'A chhc' K UbXYfi b['Xi fW 'XYb A ÀfW Ybk U'X 'Yf'YVhYb'X]Y'\_Y]bYb'9bhXYW\_Yf'Y]bYb'J cfa ]hhU[ j c``Yf'F ÀhgY``i bX'gdUbbYbXYf'6Y[Y[bi b[Yb'a]h'VY\_UbbhYb A ÀfW YbZ][i fYb"'6Y['Y]hYh'j cb': fUi '<c``Yž'X]Y'U`g'8cf]g ; U]» a U]Yf'Ui ZhfUhž'i bX'F ch\_ÀddW Ybž'j Yf\_ÒfdYfh'j cb'DYhfcbY``U GhY]bYfž'k i fXY'XUg'9j Ybh'ni 'Y]bYa 'i bj Yf[Ygg`]W Yb'9f`YVb]g"

A ]hFi W\_gÀW\_Yb 'VYdUW\_hi bX'j c``Yf'J cfZfYi XY'k i fXYb'X]Y'?]bXYf j cb']\fYb'9`hYfb'ni a 'Hf]a a !8]W\!DZUX'[YVfUW\hž'k c']\f 5VYbhYi Yf'VY[Ubb"'6YfY]hg'bUW\'Y]bYf'\_i fnYb'9]bZØ\fi b[ a UW\hYb'g]Y'g]W\'Ui Z'X]Y'nk Y]Y]b\U`VghØbX][Y'9f\_i bXi b[gfY]gY Xi fW\'XYb'A ÀfW\Ybk U`X"'5b'XYf'YfghYb'GhUh]cb'k i fXYb'X]Y \_`Y]bYb'6Ygi W\Yf'a ]h'Y]bYa '?cfV'j c``Yf'ŸdZY``ØVYffUgW\h' 'Y]b \_`Ugg]gW\Yg'Gma Vc``Ui g'A ÀfW\Yb"

### 9]bYFY]gYXifWXA ÀfWXYbibXBUhif

8]Y?]bXYf`nY][hYb`g]W.`VYgcbXYfg`[YgW.]W\_h`XUf]bž`XUg`FÀhgY`ia`X]Y`ŸdZY``]b`XYf`; YgW.]W.hY`jcb`:fUi`<c``Y`ni```ÒgYb"`Jcb`XcfhUig`[]b[`Yg`kY]hYf`ni`kY]hYfYb`AÀfW.YbY`YaYbhYbž`kcVY]`g]Y`UiZ; YgW.]W.hYb`k]Y`Kc`ZibX`:iW.gž`FiadY`gh]`nW.Yb`ibX8cfbfÒgW.Yb`gh]Y»Yb"`6Y]`YXYf`GhUh]cb`\UhhYb`X]Y`JYfUbghU`hYf`]YVYjc```[YghU`hYhY`IhYbg]`]Yb`jcfVYfY]hYhž`X]Y`YkY]`][Yb

; YgW\]W\hYb'ni a '@YVYb'Yfk YW\_hYb"'9g'k Uf'Y]bY'VYY]bXfi W\_YbXY @Y]ghi b[ $\check{z}$ 'k]Y'[i h'X]Y'?]bXYf']bZcfa ]Yfh'k UfYb'i bX'X]Y'FÀhgY`'Ub XYb'Y]bnY`bYb'GhUh]cbYb'`ÒghYb"

5b'Y]bYf'XYf'bU\f\UZhYb'GhUh]cbYbž'X]Y'XYf'; YgW\]W\hY'j cb <br/>
<\AbgY``i bX'; fYhY` '[Yk]Xa Yh'k Ufž'\_cbbhYb'X]Y'?]bXYf'gc[Uf'X]Y<br/>
j cb': fUi '<c``Y'gY`Vgh'[YVUW\_YbYb'@YV\_i W\Yb'\_cghYb"'8]YgY'gØ» Y<br/>
6Y`c\bi b['k Uf'Y]bY'k]``\_ca a YbY'GhAf\_i b['bUW\'XYa<br/>
Ui ZfY[YbXYb'9bhXYW\_i b[gdfcnYgg']a 'K U'X"'8cW\'Yg'[]b['b]W\h<br/>
bi f'i a 'X]Y'A AfW\Yb' 'X]Y'?]bXYf'`YfbhYb'Ui W\'j ]Y`'ØVYf'X]Y<br/>
BUhi f.'G]Y'Yf`YVhYb'X]Y'i bUb[YbY\a Y'6YfØ\fi b['Y]bYf<br/>
6fYbbbYggY``i bX'ZUbXYb'Y]bY'k]bn]['\_`Y]bY'GW\bYW\_Y'Ui Z'Y]bYa<br/>
6`Uhh"

## 9]b k Yfhj c``Yf 6Y]hfU[ 'ni f Gca a YfZYf]YbgdU» '&\$&(

: Øf`8 cf]g`; U]» a U]Yfž`X]Y`X]YgYg`9j Ybh`]a `ZØbZnY\bhYb`\*J\f cf[Ub]g]Yfh`\Uhž`k Uf`Yg`YfbYi h`Y]bY`; Y`Y[Yb\Y]hž`]\fY @Y]XYbgW\UZh`ZØf`A ÀfW\Yb`a ]h`XYb`?]bXYfb`ni `hY]`Yb"`8i fW\`]\fY Y]bZØ\`gUa Y`5b`Y]hi b[`\_cbbhYb`X]Y`^i b[Yb`HY]`bY\a Yf`b]W\h`bi f]\fY`: UbhUg]Y`YbhZU`hYbž`gcbXYfb`Ui W\`k Yfhj c``Y`@Y\_h]cbYb`ØVYf X]Y`BUhi f`a ]hbY\a Yb"`5a `9bXY`Y]bYg`Yf`YVb]gfY]W\Yb`A cf[Ybg k i fXYb`X]Y`?]bXYf`a ØXYž`UVYf`[`ØW\_`]W\'j cb`]\fYb`9`hYfb`]b 9a dZUb[`[Ybca a Ybž'j c``Yf`; YgW\]W\hYb`i bX`bYi Yb`9]bXfØW\_Yb"

Gc`WXY'J YfUbghU`hi b[Yb'g]bX'j cb'[fc» Yf'6YXYi hi b[ž'XU'g]Y'X]Y ?fYUh]j ]hÀh'i bX'XUg' \( \dagger \

# A ÀfWX Yb \ UZhY '9fn]Y \ i b[ . '8]Y '6YXYi hi b[ j cb'; YgWX]WX hYb']b'XYf'?]bX\Y]h

8]Y'K Y`h'XYf'A ÀfW\Yb'gd]Y`h'Y]bY'YbhgW\Y]XYbXY'Fc``Y']b'XYf\_c[b]h]j Yb'i bX'Ya ch]cbU`Yb'9bhk]W\_`i b['j cb'?]bXYfb"'Ghi X]YbnY][Ybž'XUgg'; YgW\]W\hYb'XUg']a U[]bUh]j Y'8Yb\_Yb'UbfY[Yb'i bX

gcn]U`Y`: À\][\_Y]hYb`ZÒfXYfb"`G]Y`V]YhYb`b]W\h`bi f`I bhYf\U`hi b[ž gcbXYfb`Ui W\`k Yfhj c``Y`@Y\_h]cbYb`ØVYf`Hi [YbXYb`k]Y
: fYi bXgW\UZhž`A i h`i bX`X]Y`I bhYfgW\Y]Xi b[`nk]gW\Yb`; i h`i bX
6ÒgY"`A ÀfW\Yb`\Y`ZYb`?]bXYfbž`]\fY`Ÿb[ghY`ni `\_cbZfcbh]YfYb`i bX
DfcV`Ya Y`ni ``ÒgYb"

5i » YfXYa 'gh]a i `]YfYb 'g]Y 'X]Y 'GdfUWX Ybhk ]W\_`i b[ "'?]bXYf``YfbYbžbYi Y 'K ÒfhYf'i bX 'GUhnghfi \_hi fYb 'ni 'j Yfk YbXYbž'k À\fYbX'g]Y ']bX]Y '; YgWX]WXhYb 'Y]bhUi WX Yb "'A ÀfWX Yb 'fY[ Yb 'Ui WX 'X]Y '? fYUh]j ]hÀhUb 'i bX 'ZÒfXYfb 'X]Y ': UbhUg]Y ZÀ\][ \_Y]hž'k Y]` 'X]Y 'Ni \ÒfYf'c Zh 'XUniY]b[ Y`UXYb 'k YfXYbž'X]Y 'XUf[ YghY``hYb 'GnYbYb 'i bX '7\UfU\_hYfY`Y\\UZh'j cfni ghY``Yb"

#### ?i `hi fY``Y i bX gcn]U`Y FY`Yj Ubn j cb A ÀfW Yb

A ÀfWX Yb 'g]b X 'b]WX h'bi f'; YgWX ]WX hYb ž gcb XYfb 'Ui WX '\_i `hi fY``Y 5fhY ZU\_hY ž 'X]Y 'K YfhY 'i b X 'HfUX]h]cb Yb 'Y]b Yf'; YgY``gWX UZh j Yfa ]hhY`b "'G]Y '\_Obb Yb 'ZUgn]b]YfYb XY '9]b V`]W\_Y ']b 'X]Y [YgY``gWX UZh`]WX Yb 'B cfa Yb 'Y]b Yf 'V Ygh]a a hYb 'NY]h'i b X 'F Y[]cb [YVYb "'8]Y'; YVfØXYf'; f]a a ž 'Xi fWX 'XYfYb '5 fVY]hYb 'j ]Y`Y 'X]YgYf; YgWX]WX hYb 'dcdi `Àf 'k i fXYb ž gUa a Y`hYb 'i b X 'j YfOZZYbh`]WX hYb ; YgWX]WX hYb ž 'X]Y 'h]YZ ']b 'XYf 'XYi hgWX Yb': c`\_`cfY 'j Yfk i fnY`h'g]b X"'

8 UfØVYf`\]bUi g`gd]Y`Yb`A ÀfW\Yb`Y]bY`k]W\h][Y`Fc``Y`VY]`XYf
: ÒfXYfi b[ 'XYg`]bhYf[ YbYfUh]cbU`Yb`8]U`c[ g"'9`hYfb`i bX
; fc»Y`hYfb`YfnÀ\`Yb`cZh`X]YgY'; YgW\]W\hYb`k Y]hYfž'k Ug`b]W\h'bi f
XUg`ZUa]`]ÀfY`6UbX`ghÀf\_hž'gcbXYfb`Ui W\`Y]bY`JYfV]bXi b[
nk]gW\Yb'j YfgW\]YXYbYb'; YbYfUh]cbYb`\YfghY``h"

### 5\_hi Y``Y`HfYbXg`]a '6YfY]WX`XYf ?]bXYfV]`Xi b[

±0 'XY b '`YhnhY b '\*J\\fY b '\Uh'X]Y '6YXY i hi b['j cb'\_fYUh]j Y b 6]`X i b[gUbgÀhnYb'ni [Ybca a Ybž'X]Y'gck c\``ghfi \_hi f]YfhYg @YfbYb'U`g'Ui W\'\_fYUh]j Y'5 i gXfi W\_gZcfa Yb']bhY[f]YfYb" Dfc[fUa a Yž'X]Y'BUhi fYf`YVb]ggY'i bX'; YgW\]W\hYbYfnÀ\`Yb \_ca V]b]YfYbž'g]bX'VYgcbXYfg'VY`]YVh"'8]YgY'5 bgÀhnY'i bhYfghØhnYbX]Y'Ya ch]cbU`Y'±bhY``][Ybn'XYf'?]bXYf'i bX'gW\UZZYb'Y]b

ia ZUggYbXYfYg`@Yfbia ZY`X"`

@Ui h'Y]bYf'Ghi X]Y'XYg'8Yi hgW\Yb' $\Rightarrow$  [YbX]bgh]hi hg'[]Vh'Yg'Y]bYb ghY][YbXYb'HfYbX'ni 'Ci hXccf!5\_h]j ]hÀhYb']b'XYf'ZfØ\\_]bX`]W\Yb 6]`Xi b[ $\check{z}$ 'XU'g]Y'X]Y'\_OfdYf`]W\Y'; Ygi bX\Y]h'XYf'?]bXYf'ZÒfXYfb i bX'[`Y]W\nY]h][']\fY'gcn]U`Yb':  $\grave{A}$ \][\_Y]hYb'ghÀf\_Yb''5\_h]j ]hÀhYb k ]Y'K UbXYfb $\check{z}$ 'X]Y'X]Y'BUhi f'Y]bVYn]Y\Yb $\check{z}$ 'g]bX'b]W\h'bi f [Ygi bX\Y]hgZÒfXYfbX $\check{z}$ 'gcbXYfb'a UW\Yb'XUg'@YfbYb'Ui W\ i bhYf\U`hgUa Yf'i bX'Y]bdfÀ[qUa Yf''

8]Y'JYfV]bXi b['j cb'A ÀfWXYb'i bX'BUhi fYf'YVb]ggYbž'k]Y'g]Y'VY]
XYf' K UbXYfi b['Xi fWX'XYb'A ÀfWXYbk U'X 'ni 'gY\Yb']ghž'V]YhYh
?]bXYfb'Y]bY'Y]bn][ Ufh][ Y'A Ò[ `]WX\_Y]hž'gck c\`'?fYUh]j ]hÀh'U`g
Ui WX'bUWXXYb\_`]WXY'FYZYI ]cb'ni 'Ybhk ]W\_Y`b"'8]Yg'ÒZZbYh'K Y[ Y
ZØf'Y]b'bUWX\U`h][ Yg'@YfbYbž'XUg'X]Y'BYi [ ]Yf'XYf'?]bXYf'k YW\_h
i bX'g]Y'Yfa i h][ hž'X]Y'K Y`h'i a 'g]Y'\Yfi a 'U\_h]j 'ni 'Yf\_i bXYb"

8 Y hU]`g

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