

## GWXcW\_]YfYbXY'FUiVØVYfZÀ``Y']b'K ]Yb. HÀhYf'a ]h'D]ghc`Y'i bX'; Yk U`h'U\_h]j °

±0.6f][]hhYbUi ii bX'k Y]hYfYb'K ]YbYf'6Yn]f\_Yb'\_Ua 'Yg'ni a Y\fYfYb'[Yk U`hhÀh][Yb'FUi VØVYfZÀ``Yb/Dc`]nY]'Yfa ]hhY`h"



6f][]hhYbUi ž'² ghYffY]WX '! 'GWX cW\_]YfYbXY 'BUWX f]WX hYb'Ui g

K ]Yb. '\(\phi\) XYb'j Yf[Ub[YbYb'HU[Yb'\_Ua 'Yg'ni 'a Y\fYfYb

F Ui VØVYfZÀ '`Ybž'X]Y 'gck c\ '`X]Y 'Dc `]nY]'U`g'Ui WX 'X]Y '5bk c\bYf']b

5`Ufa VYfY]hgWX UZh'j YfgYhnhYb'' '\(\phi\) gVYgcbXYfY 'X]Y 'J cfZÀ ``Y']b'XYf

B UWX h'j cb 'A ]hhk cWX 'Ui Z'8 cbbYfghU[ 'gcf[Yb'ZØf'; YgdfÀWX gghcZZ''

K ]Y'? 'Y]bY'NY]hi b[ 'VYf]WX hYhž'k i fXY'Y]b'9ggYbgni ghY``Yf']b'XYf

K U[ fUa Yf'GhfU\(\pa\)Y'[Y[Yb'A]hhYfbUWX h'j cb'XfY]'A ÀbbYfb

i a n]b[Y'hi bX'a]hY]bYf'GWXi ggk UZZY'ni f'<YfUi g[ UVY'j cb

6Uf[Y'X'i bX'<UbXm'Ui Z[YZcfXYfh"'BUWX'GWX`À[Yb']bg'; Yg]WX h
\_cbbhY'XYf'&, !\(\pa\)A\f][Y'Ybh\_ca a Yb'i bX'k À\`hY'XYb'Bchfi Z''

; '\(\pa\)W\_`]WXYfk Y]gY'k i fXY'Yf'UbgWX`]Y\(\pa\)YbX'a YX]n]b]gWX'j Yfgcf[h
i bX'VYZ]bXYh'g]WX'k]YXYf'Ui Z'XYa 'K Y[ 'XYf'6YggYfi b[ "

8 c W 'XYf'9ggYbgni ghY``Yf'k Uf'b]W h'XYf'9]bn][Yž'XYf']b'X]YgYf B UW h'VYXfc\h'k i fXY"'5i Z'XYf'8cbUi ]bgY``k i fXYb'nk Y]'A ÀbbYf ]a '5`hYf'j cb'&-'i bX'' \* '\$U\fYb'[Y[Yb'&.%) 'I\f'j cb'nk Y] j Yfa i a a hYb'HÀhYfb'a ]h'Y]bYf'D]ghc`Y'VYXfc\h"'5i W '\]Yf'k i fXYb 6Uf[Y`X'i bX'K Yfh[Y[YbghÀbXY'YfVYi hYhž'VYj cf'X]Y'HÀhYf'Z]Y\Yb\_cbbhYb"'8]YgY'J cfZÀ``Y'a UW Yb'XYi h`]W ž'XUgg'X]Y G]W Yf\Y]hg`U[Y']b'XYf'GhUXh'VYgcf[b]qYffY[YbX']gh"

## > b[Y'CdZYf'i bX'Vfi hU`Y', VYf[f]ZZY

 $8 ]Y'; Yk U`h'VYgWk fÅb_h'g]Wk 'YXcWk 'b]Wk h'bi f'Ui Z'9fk UWk gYbY'' 5a A ]hhk cWk a cf[Yb'k i fXY'Y]bY'%(!\( \frac{1}{2} \) \\ f][Y']b'6f][]hhYbUi 'Ua : f]YXf]Wk!9b[Y'g!D`Uhn'j cb'nk Y]'A ÅXWkYb'a ]h'Y]bYa 'A YggYf VYXfc\hi bX']bg'; Yg]Wk h'[YgWk`U[Yb''8]Y''A b[Y': fUi 'k i fXY c\ba ÅWk h]['i bX'a i gghY'a ]h'ghUf_Yb'GWk a YfnYb']bg ?fUb_Yb\Ui g'[YVfUWk h'k YfXYb'''9]b'k Y]hYfYg'C dZYfž'Y]bY '\&!\( \frac{1}{2} \) \\ A\fillow f][Yz'k i fXY'a ]hhU[g']a 'K U'Xa \\ O``YfdUf_']b': Uj cf]hYb \\ Ub[Y[f]ZZYb'''9]b'9!GWcchYf!\( OYb_Yf'f]gg']\f'i bYfk UfhYhY]bY [c`XYbY'?YhhY'j ca '< U'g'i bX'Z'c\'UbgWk']Y\( YbX']b'F]Wk hi b[ A\Uf[UfYhYb[\OYfhY`''\\ \\ b'U`Yb': \A``Yb'g]bX'X]Y'H\AhYf'k Y]hYf\]b'Ui Z'XYf : i Wk hž'i bX'X]Y': U\bXi b[Yb'V`]YVYb'V]g\YfYfZc`[`cg''$ 

8]Y'Vfi hU`Yb', VYfZÀ``Y'g]bX'\_Y]b'9]bnY`ZU``"'@Ui h'U\_hi Y``Yb GhUh]gh]\_Yb'Ui g'K ]Yb']gh'X]Y'?f]a ]bU`]hÀhgfUhY']a '\$U\f'&\$&(']a JYf[`Y]W\'ni '&\$&' 'ghUf\_'[Ygh]Y[Yb"'8]Y'NU\``XYf'FUi VXY`]\_hY'\Uh g]W'i a '%, ž%'i 'Yf\Ò\h'i bX'`]Y[h'bi b'VY]'%"' - ("'5i W\', VYfZÀ``Y Ub'ÒZZYbh`]W\Yb'CfhYb'\UVYb'ni [Ybca a Ybž'k Ug'X]Y'G]hi Uh]cb bcW\'VYgcf[b]gYffY[YbXYf'a UW\h"'8Yf'5bgh]Y['XYf \$\forall [YbX\_f]a ]bU`]hÀh'ghY``h'XUVY]'Y]b'VYgcbXYfg'[fc>Yg'DfcV`Ya XUfž'a ]h'ghUf\_'UbghY][YbXYb'NU\`Yb'VY]'HUhj YfXÀW\h][Yb'i bhYf'%, \$U\fYbž'k]Y'J]YbbU"Uh'Yf`Ài hYfh"

## : YghbU\a Yb i bX < ]bhYf[ fØbXY

K À\fYbX'X]Y'U\_hi Y``Yb', VYfZÀ``Y'ZØf'j ]Y`'5i ZfY[i b['gcf[Ybž'ZØ\fh X]Y'Dc`]nY]'Ui W\'9fa ]hhìi b[Yb'ni 'ni j cf'[YgW\Y\YbYb FUi VØVYfZÀ``Yb']b'K ]Yb'i bX'B]YXYfÒghYffY]W\'Xi fW\"'K ]Y' A Y]b6Yn]f\_'VYf]W\hYhž'k i fXYb'VYfY]hg'XfY]'hgW\YW\]gW\Y GhUUhgVØf[Yf'ZYgh[Ybca a Ybž'X]Y'j YfXÀW\h][h'k YfXYbž']b'Y]bY
FY]\Y'j cb', VYfZÀ``Yb'j Yfk ]W\_Y`h'[Yk YgYb'ni 'gY]b"'8]YgY
JYfXÀW\h][Ybž'X]Y'XYa '8fc[Yba]`]Yi 'ni [YcfXbYh'k YfXYbž'\UhhYb
VY]']\fYb'5\_h]cbYb'j cf'U``Ya 'X]Y'6YgW\UZZi b['j cb'; Y`X'i bX
K YfhgUW\Yb']a 'J]g]Yf"

8]Y?ca V]bUh]cb'Ui g'XYf'ghY][YbXYb'?f]a ]bU`]hÀh'i bX'XYb 'Øb[ghYbž'hY]`g'[Yk U`hhÀh][Yb', VYf[f]ZZYb'VYgcf[h'X]Y'K ]YbYf 6Yj O`\_Yfi b['Ybcfa "'8]Y'Dc`]nY]'\Uh'g]W\'nk Uf'VYfY]hg'Ui Z'X]Y : U\bXi b['i bX'5i Z\_`Àfi b['XYf'HUhYb'\_cbnYbhf]Yfhž'XcW\'X]Y FYU\_h]cb'i bX'XUg'G]W\Yf\Y]hg[YZØ\`']b'XYf'GhUXh'ghY\Yb'Ui Z'XYa DfØZghUbX"'5bk c\bYf'i bX'6Ygi W\Yf'g]bX'Ui Z[Yfi ZYbž'j YfghÀf\_h 5W\h'ni '[YVYb'i bX'j YfXÀW\h][Y'5\_h]j ]hÀhYb'ni 'a Y`XYbž'i a 'X]Y G]W\Yf\Y]h']b'XYb'GhfU» Yb'K ]Ybg'k ]YXYf\Yfni ghY``Yb"

8 YhU]`g	
Cfh	6f][]hhYbUi ž <sup>·2</sup> ghYffY]WX
EiY``Yb	• k k k "_`Y]bYnY]hi b[ "Uh
	• k k k "a Y]bVYn]f_"Uh
	• k k k "j ]YbbU"Uh

6 Ygi W Yb G]Y i bg Ui Z a Y]b!k ]Yb bYh