

## 5 W\_YfZYgh']b'GWX ÒddYbghYXh.'5``Ygž'k Ug G]Y'k ]ggYb'a ØggYb°

5``Ygž'k UgʻG]YʻØVYfʻXUgʻ5W\_YfZYghʻ]bʻGW\ÒddYbghYXhʻk ]ggYb a ØggYb. '5bfY]gYž'Dfc[fUa a ž'7Ua d]b[ˈi bXˈa Y\fʻZØfʻY]b i bj Yf[Ygg`]W\Ygʻ9f`YVb]g°

 $GWN OddYbghYXh''= a a U`Yf]gWN Yb GWN OddYbghYXh`Z]bXYh`Ub`X]YgYa K cWN YbYbXY`XUg`a ]h`GdUbbi b[`Yfk UfhYhY`5W_YfZYgh`ghUhh''`5a : fY]hU[`VY[]bbh`XUg`9j Ybhž`XUg`gY]h`ØVYf`nk Y]`$J\fnY\bhYb`Y]b < ][\`][\h`ZØf`: fYi bXY`XYf`Di b_!`i bX`<math>\pm$ bX]Y!A i g]\_`]gh''` $\pm$ bg[YgUa h k YfXYb'' \$\$\$`6Ygi WNYf`i bX`Y`Z`Ui ZfY[YbXY`6UbXg`Yfk UfhYh''

 $8 ]Y'JYfUbghU'hi b[\check{z}'X]Y'Ua `\&' "'i bX'\&( "'5i [i gh'ghUhhZ]bXYhž'YfZfYi h g]WX'[fc>Yf'6Y`]YVh\Y]h'i bX'n]Y\h'HY]`bY\a Yf'Ui g'bU\'i bX'ZYfb Ub"'8Yf'JYfY]b'5W_YfZYhnh'Y"J"\Uh'Y]b'UVk YWXg'i b[gfY]WXYg Dfc[fUa a 'ni gUa a Yb[YghY``hž'XUg'gck c\``A i g]_ZUbg'U`g'Ui WX : Ua ]`]Yb'Ubgdf]WXh"$ 

## 9]bV`]W\_Y']b'XUg': Ygh]j U`dfc[fUa a

8 Yf YfghY 5 VYb X 'XYg 5 W\_Yf ZYghg 'VY[]bbhi a '%, 'I \f'a ]h' ≈\_]b[ 5g]XYžY]bYf 'XmbUa]gW Yb 'Dcd!Di b\_!6Ub X 'Ui g '6fUi bgW k Y][" 8 Ug '[YgUa hY : Ygh]j U`'j Yfgdf]W h'Y]b 'Ui ZfY[Yb XYg '9f`YVb]gž 'XUg [Y[Yb '&&.) \$ 'I \f'a ]h 'XYa '5i Zhf]hh'j cb '9b[ghž Y]bYa fYbca a]YfhYb '< YUX`]bYfž UV[Yfi bXYh'k]fX"

8 Yf GUa ghU[ 'V]YhYh XYb 6 Ygi WX Yfb Y]b 'V Ygcb XYf Yg : Ua ]`]Yb ZYghž XUg i a '%( 'I \f 'ghUfhYh' 'A ]h 'Gd]Y `Yb ž '5 hhfU\_h]cb Yb i b X 'Y]b Ya : `c\a Uf\_h ']gh 'ZØf 'I bhYf\U`hi b[ '[ Ygcf[ h" '5a 'B UWXa ]hhU[ 'hfYhYb XUbb 'X]Y 'fY[ ]cb U`Yb '? Øbgh `Yf 'k ]Y 'X]Y '5 WXh[ fcgWX Yb VUb XY 'Ui Zž k À\fYb X 'XYf '5 VgWX `i gg\Ua a Yfž X]Y '6 Ub X '\$\J\W\_' Dchhž nk ]g\W Yb '&'

#### 5bfY]gYibX5iZYbh\U`h

8]Y'6Ygi W\Yf'\_ObbYb'g]W\'Ui Z'i b\_ca d`]n]YfhY
5bfY]gYa O[`]W\\_Y]hYb'ZfYi Yb"'8Ug': Ygh]j U`[Y`AbXY']gh'[i h
YffY]W\VUfž'i bX'Yg'ghY\Yb'\_cghYb`cgY'DUf\_d`AhnY'ni f'JYfZØ[i b["
K Yf'Yg'VYj cfni [hž'a ]h'OZZYbh`]W\Yb'JYf\_Y\fga ]hhY`b'ni 'fY]gYbž
Z]bXYh']b'XYf'BA\Y'XYg'; Y`AbXYg'Y]bYb'6U\b\cZ''8]Y
FY[]cbU`VU\b'F6()'jYf\_Y\fh'fY[Y`a À»]['nk]gW\Yb'6fUi bgW\kY][
i bX'GW\OddYbghYXh"

8 Ugʻ7 Ua dYbʻUi ZʻXYaʻ: Ygh]j Uʻ[Y`ÀbXYʻ]ghʻYfʻUi Vhž'k UgʻY]b
ni gÀhn`]WXYfʻDʻi gdi b\_hʻZØfʻj ]YʻYʻ6Ygi WXYfʻ]ghʻʻ5Vʻ: fY]hU[ʻi aʻ%)
I \fʻ\_ÒbbYbʻNY`hYʻi bXʻK c\ba cV]`YʻUi ZʻXYaʻ7 Ua d]b[d`Uhn
UV[YghY``hʻk YfXYbʻʻ9gʻ[Y`hYbʻYXcWX Y]b][YʻFY[Y`bž'XUfi bhYfʻXUg
JYfVchʻj cbʻ; `UgZUgWXYbʻgck ]YʻXUgʻ; f]``Ybʻʻ8]YʻJYfUbghU`hYf
`Y[YbʻK Yfh'XUfUi Zž'XUggʻXYfʻ5W\_YfʻbUWXʻXYaʻ: Ygh]j U`
i bVYgWXÀX][hʻV`Y]Vhž'XUʻYfʻk Y]hYf\]bʻ`UbXk ]fhgWXUZh`]WXʻ[Ybi hnh
k ]fX''

: Øf X]Y '< m[ ]YbY 'g]bX 'Ui Z'XYa '; Y`ÀbXY 'Ui gfY]W\YbX 'A Ø``hcbbYb j cf\UbXYbž'i a 'Y]bY 'gUi VYfY 'I a [ YVi b[ 'k À\fYbX 'XYg': YghYg'ni [ Yk À\f`Y]ghYb" 'K À\fYbX 'Yg'Ui Z'XYa '7 Ua d]b[ d`Uhn'\_Y]bY K UgW\a O[ `]W\\_Y]hYb'[ ]Vhž'k ]fX 'Ya dZc\`Ybž'XUg'Ub[ fYbnYbXY: fY]VUX 'Ui Zni gi W\Ybž'XUg'bi f'nk Y]'?]`ca YhYf'YbhZYfbh']gh'i bX'ni XYb'ØV`]W\Yb'² ZZbi b[ gnY]hYb'VYgi W\h'k YfXYb'\_Ubb"

6YgcbXYfYg'5i [Yba Yf\_'`Y[Yb'X]Y'JYfUbghU`hYf'Ui Z'X]Y BUWXVUfgWXUZhži bX'V]hhYb'X]Y'6Ygi WXYfž'VY]']\fYa 'K Y['ni a : Ygh]j U`'Ui Z'X]Y'@Ui hghÀf\_Y'ni 'UWXhYb'' 9]b'ZfYi bX`]WXYf'I a [Ub[a]h'XYb'5bk c\bYfb']gh'i bg'k]WXh][ ž'gc'XYf'JYfY]b'5W\_YfZYhnh Y"J"

8]Y'6YnU\`i b['Ui Z'XYa': Ygh]j U`[Y`ÀbXY'YfZc`[h'Ui ggW\`]Y»`]W\
a ]h'gc[YbUbbhYb'K Yfha Uf\_Ybž'X]Y'Ua '\delta ZcghUbX'Yf\À`h']W\'g]bX"
8]YgY'\_ObbYb'gck c\`'VUf'U`g'Ui W\'a ]h'97!?UfhY'Yfk cfVYb
k YfXYb'i bX'k YfXYb'[Y[Yb'9ggYb'i bX'; YhfAb\_Y'Y]b[YhUi gW\h'

K Yf'6Uf[Y`X'VYbÒh][hž'Z]bXYh']b'XYf'BÀ\Y'XYg': Ygh]j U`[Y`ÀbXYg a Y\fYfY'6Ub\_Yb'gck]Y'Y]bYb'Gi dYfa Uf\_hž'XYf'bi f'%) 'A]bi hYb: i » k Y['YbhZYfbh']gh"'Gc'ghY\h'XYa '`Y]W\hYb'Ni [Ub['ni JYfdZY[i b['i bX'k Y]hYfYb'Bchk YbX][\_Y]hYb'b]W\hg']a 'K Y[Y"

8 Ugʻ5 W\_YfZYghʻk ]fXʻUʻgʻi a gcbghʻi bXʻXfUi » YbʻVYk cfVYbžʻk Ug VYXYi hYhžʻXUggʻ\_Y]bʻH]W\_YhʻVYbÒh][ hʻk ]fXžʻi a ʻXUgʻ: Ygh]j Uʻini VYgi WXYb"'8 ]YʻNi [ Àb[ `]WX\_Y]hʻZØfʻU``YžʻX]Yʻhi bʻi bXʻ`UggYbʻk c``Ybž k Ugʻg]Yʻa ÒWXhYbžʻa UWXhʻXUgʻ9j Ybh'ni ʻY]bYaʻXYfʻVY`]YVhYghYbʻ]b XYfʻFY[ ]cb"

#### 9]b i bj Yf[ Ygg`]WX Yg 9f`YVb]g

8 Ug 5 W\_YfZYgh V]YhYh b]W h b i f Y]b a i g]\_U`]gW Yg < ][\`][\h ZØf Di b\_! i b X \ D X]Y!: Ubgž gc b X Yfb j YfY]bh Ui W Y]bY VfY]hY; Ya Y]bgW UZh j c b A YbgW Ybž X]Y X Ug [ `Y]W Y \ D hYfYggY Ub A i g]\_i b X ? i `h i f \ UVYb " \ XYf \]gh Y]b [ Y \ UXYbž HY]` X]YgYf \ ZYgh`]W Yb 5 ha cgd\AfY n i 'gY]b i b X 'g]W Ui Z Y]b K c W YbYb X Y j c ``Yf A i g]\_ž GdU» i b X [ Ya Øh`]W Yf 6 Y[ Y[ b i b [ Yb n i 'Zf Y i Yb " K Yf 'g]W X]YgYg 9 f `YVb]g b]W h Ybh[ Y\Yb ``UggYb a OW h Yž \ Uh Ub X]YgYa K c W YbYb X Y X]Y V YghY; Y Y[ Yb\Y]h X Un "

?i `hi fY``Y'6YXYi hi b['XYg'5W\_YfZYghg"'8 Ug'5W\_YfZYgh']gh'b]W\h'bi f Y]bY'A i g]\_j YfUbghU`hi b[ $\check{z}$ 'gcbXYfb'Ui W\'Y]b'k]W\h][Yf'gcn]U`Yf HfYZZdi b\_h'ZØf'X]Y'FY[]cb"

8 Ugʻl a ZY`X'XYgʻ5 W\_YfZYghgʻgd]Y[Y`hʻc Zh'X]Y'K YfhY'XYfʻDi b\_!'i bX \( \Delta X]Y!?i \text{hi f'k } \]XYfž'X]Y'Xi fW\'qcn]U`Y'; YfYW\\h][\_Y]hž GY`VghVYgh]a a i b[ 'i bX'?fYUh]j ]hÀh'[ YdfÀ[ h'g]bX"' ♣ 'X]YgYf < ]bg]W\h'\Uh'XUg': Ygh'Y]bY'VYXYi hYbXY'Fc``Y']b'XYf'9bhk ]W\_`i b[ i bX'9hUV`]Yfi b[ 'fY[ ]cbU`Yf'A i g]\_\_i `hi fYb'[ Ygd]Y`h"

# 6Ygi WX YfnU\`Yb`i bX`k ]fhgWX UZh`]WX Y 5i gk ]f\_i b[ Yb

8]Y '6Ygi W\YfnU\`Yb`XYg`: Ygh]j U`g`g]bX`]b`XYf`FY[Y``ghUV]`ži bX
XUg`5W\_YfZYgh`n]Y\h`fi bX`' "\$\$\$`A YbgW\Yb`Ub"`@Ui h`Y]bYf`I a ZfU[Y
ni f`k ]fhgW\UZh`]W\Yb`6YXYi hi b[ `gc`W\Yf`J YfUbghU`hi b[ Yb`ZØf
`AbX`]W\Y`FY[ ]cbYb`]gh`ni `VYUW\hYbž`XUgg`: Ygh]j U`g`k ]Y`X]YgYg
Ui W\`X]Y``c\_U`Y`K ]fhgW\UZh`i bhYfghØhnYb"`8]Y`6Ygi W\Yf`\_Ui ZYb
b]W\h'bi f`H]W\_Yhgž`gcbXYfb`[ YbYf]YfYb`Ui W\`I a gÀhnY`]b`XYb
`c\_U`Yb`; YgW\ÀZhYbž'; Ughfcbca ]Yb`i bX`VY]`8]Ybgh`Y]ghYfb"

8 Ugʻ5 W\_YfZYghʻZÒfXYfhʻX]Yʻk ]fhgW\UZh`]W\Yʻ5\_h]j ]hÀhʻ]b GW\ÒddYbghYXhžʻXUʻj ]Y`YʻA YbgW\Ybʻ]a `JcfZY`Xʻi bXʻk À\fYbXʻXYg : Ygh]j U`gʻ]bʻXYfʻFY[]cbʻØVYfbUW\hYbžʻ9ggYbʻ\_Ui ZYbʻi bX 8 ]Ybgh`Y]ghi b[Ybʻ]bʻ5bgdfi W\bY\a Yb"ʻGhi X]YbʻnY][YbžʻXUgg : Ygh]j U`gʻ]bʻ`ÀbX`]W\Ybʻ; YV]YhYbʻcZhʻY]bYʻk ]W\h][Y 9]bbU\a Yei Y``YʻZØfʻ\_`Y]bYʻl bhYfbY\a YbʻXUfghY``Yb"`8]Ygʻ]ghʻY]b dcg]h]j Yfʻ5gdY\_hžXYbʻX]YʻJYfUbghU`hYfʻVYhcbYb"

### 9b[U[Ya Ybh]b XYf; Ya Y]bgW UZh

8 Yf'J YfY]b'5 W\_YfZYhnh'Y"J "'Yb[ U[ ]Yfh'g]WX 'b]WX h'bi f'ZØf'X]Y
8 i fWX ZØ\ fi b[ 'XYg': Ygh]j U`gž'gcbXYfb'Ui WX ']b'XYf
; Ya Y]bXYUfVY]h"'6YgcbXYfg'\Yfj cfni \YVYb']gh'X]Y'I bhYfghØhni b[
j cb'`c\_U`Yb'[ Ya Y]bbØhn][ Yb'Cf[ Ub]gUh]cbYb'i bX'\dangle ]h]Uh]j Yb"'8Yf
J YfY]b'n]Y\h'\Ài Z][ 'DUfhbYfgWX UZhYb'a ]h'GWXi `Yb'i bX
\$\dangle [ YbXnYbhfYb']b'XYf'I a [ YVi b[ ']b'6YhfUWX hž'i a 'X]Y
\$\dangle [ YbX\_i `hi f'ni 'ZÒfXYfb'i bX'Z]bUbn]Y``Y'I bhYfghØhni b[ 'ZØf'`c\_U`Y
Dfc'Y\_hY'ni 'gUa a Y`b"

nY][YbžXUgg`XUg`: Ygh]j U``b]W\h`bi f`Y]b`Y]ba U`][Yg`9j Ybh`]ghž gcbXYfb`Y]b`ZYghYf`6YghUbXhY]``XYf`fY[]cbU`Yb`?i``hi f`i bX`XYg gcn]U`Yb`@YVYbg"

#### $BUWX \setminus U^h][ _Y]hg]b]h]Uh]YjYb$

± XYb ``YhnhYb '\*J\fYb `\Uh'XUg'5W\_YfZYgh'Ui W\ j YfghÀf\_h'K Yfh'Ui Z BUW\\U`h][\_Y]h'[Y`Y[h"'8]Y'J YfUbghU`hYf'\UVYb'A U» bU\a Yb Yf[f]ZZYbži a `XYb'Ò\_c`c[]gW\Yb': i » UVXfi W\_'XYf'J YfUbghU`hi b['ni fYXi n]YfYb"'8Uni '[Y\ÒfYb'X]Y'J Yfk YbXi b['j cb k]YXYfj Yfk YbXVUfYb'6YW\Yfbž'X]Y': ÒfXYfi b['j cb'ÒZZYbh`]W\Yb JYf\_Y\fga ]hhY`b'ZØf'X]Y'5bfY]gY'i bX'X]Y'6YfY]hghY``i b['j cb FYWhW]b[!?ÒfVYb'ZØf'X]Y'6Ygi W\Yf"

8]YgY = b]h]Uh]j Yb g]b X 'HY] ` Y ]b Yg [ f O ) YfYb 'HfYb Xg ']b 'XYf : Ygh]j U`gnYb Y ž'k c 'I a k Y`hVYk i gghgY]b 'i b X 'b UW \ U`h][ Y 'DfU\_h]\_Yb Ub '6 Y X Yi hi b [ '[ Yk ]b b Yb " 8]Y 'J Yf Ub ghU`hYf 'X Yg '5 W\_Yf ZYghg 'g]b X g]W 'X Yf 'J Yf Ub hk c fhi b [ 'VYk i ggh i b X 'Uf VY]hYb '\_cbh]bi ]Yf`]W XUf Ub ž'Y]b 'i a k Y`hZf Yi b X`]W Yf Yg ': `U]f 'ZØf 'X Ug ': Ygh]j U`ni gW UZZYb"

8 Y hU1`a

6 Y gi W Y b 'G ] Y 'i b g 'U i Z 'b ! U [ "X Y