

HfU[]gWXYf'FY]hi bZU``'Ui Z'FØ[Yb. $(! \Rightarrow) f][Y'j cb'; fi VVYf'ØVYffc``h$

9]bY'%(!À\f][Y'kifXY'UiZ'FØ[Yb'jcb'Y]bYa'HfU_hcf ØVYffc``h'i bX'hÒX`]W\'jYf`Yhnhž'kÀ\fYbX'g]Y'a]h'UbXYfYb FY]hYfb'i bhYfkY[g'kUf"

$$\begin{split} &\text{Hfu[\ \ ox]Y\ ``ui\ \ Z`F\ \emptyset[\ Yb.\ ``9]b\ ``5i\ gf]hhž\ XYf\ `Z\emptysetf\ `Y]bY\ ``%(\ !\ `A\ f][\ Y\ `F\ Y]hY\ f]b\ hox\ `]W\&\ `Yb\ XYhY\ ž`\ Uh'\ X\ Ug\ `@Ub\ X\ `YfgW\&\ \emptysethhY\ fh''\ `6Y]a\ `F\ Y]hY\ b\ `Ui\ Z`Y]bYa\ :\ Y`Xk\ Y[\ `]b`XYf\ B\ A\ Y'j\ cb\ `6i\ V_Yj\]hn'_Ua\ `Yg'ni\ `Y]bYa\ gW\&\ fY\ W_`]W\&\ Yb\ `J\ cfZU``ž`U`g`Y]b\ 'HfU_hcfž`XYf`a\]h'Y]bYa\ ';\ fi\ VVYf\ Ui\ g[\ YfØghYh`k\ Ufz`g]W\&\ 'b\ A\ YfhY''`8]Y'\ b[\ Y`F\ Y]hYf]b`k\ Uf`a\]h\ UbXYfYb` $i\ [YbX`]W\&\ Yb`i\ bhYfk\ Y[\ gž`U`g`]\ f`DZYfX`d`Ohn`]W\&\ gW\&\ Yi\ hYi\ bX`g]Y`j\ ca\ `GUhhY``Z]Y`'' \end{split}$$

8 Yf'J cfZU```[YgW\ U\ ž'U`g'XUg'A ÀXW\ Yb'a]h']\ fYb': fYi bXYb'Ub Y]bYa 'gcbb][Yb'BUW\ a]hhU['i bhYfk Y[g'k Uf" 8 Ug'DZYfX'XYf %(!:\A\f][Yb'Vi W_Y`hYž'k Ug'ni ']\ fYa 'Ghi fn'ZØ\fhY" 8 Yf'&*!'\A\f][Y: U\fYf'XYg'HfU_hcfg'\UhhY'_Y]bYf`Y]'A Ò[`]W_Y]hž'fYW\ hnY]h]['ni fYU[]YfYb"'Hfchn'gY]bYf'6Ya Ø\ i b[Ybž'XYa 'DZYfX'i bX'XYf'FY]hYf]bUi gni k Y]W\Ybž'_cbbhY'Yf'b]W\ h'j Yf\]bXYfbž'XUgg'XYf'; fi VVYf ØVYf'X]Y'\Yb b[Y': fUi 'fc``hY"

8Yf'hÒX`]WXY'I bZU``

8]Y'Dc`]nY]'VYghÀh][hYž'XUgg'X]Y'FY]hYf]b'Ub'XYf'I bZU``ghY``Y'gc gWkYf'j Yf`Yhnh'k i fXYž'XUgg'g]Y'Xcfh'j YfghUfV'''<]bni '_ca a hž XUgg'X]Y'9fa]hh`i b[Yb'Xi fWk'X]Y'?f]a]bU`dc`]nY]'VY[cbbYb k i fXYbž'i a 'U``Y'I a ghÀbXY'XYg'I bZU``g'[YbUi 'ni '_`ÀfYb'''9]b 9I dYfhY'j cb'XYf'8Y_fU']gh'YVYbZU``g'\]bni [Ync[Yb'k cfXYbž'i a X]Y'G]hi Uh]cb'ni 'UbU`mg]YfYb'i bX'X]Y'[YbUi Yb'5V`Ài ZY'XYg hfU[]gWXYb'9fY][b]ggYg'ni 'fY_cbghfi]YfhYb''

9]b; fi VVYfž'XUg``UbXk]fhgW\UZh`]W\Y; YfÀhž'XUg`]b'X]YgYa 'JcfZU`` ni a '9]bgUhn'_Ua ž'X]Ybh']b'XYf'FY[Y`'XYf'6cXYbVYUfVY]hi b["'9fk]fX'j Yfk YbXYhž'i a 'XYb'6cXYb'ni '`cW_Yfb'i bX'XUg'GUUhVYhh'ZØfX]Y'@UbXk]fhgW\UZh'j cfni VYfY]hYb"'8cW\'\]Yf'Yfk]Yg'g]W\'XUg; YfÀh'U`g'ZUhU`ž'U`g'Yg'ØVYf'X]Y'j Yf`YhnhY'FY]hYf]b'fc``hY"

I bZU``i bhYfgi WX i b[Yb'i bX'fYWXh`]WXY : c`[Yb

8]Y'9fa]hhìi b[Yb'k YfXYb']bgVYgcbXYfY'X]Y': fU[Y'_`ÀfYbžcV'X]Y
G][bU`]g]Yfi b['i bX'G]WkhVUf_Y]h'XYg'HfU_hcfg'Ui gfY]WkYbX'k UfYbž
i a 'gc`Wk'Y]bYb'I bZU``ni 'j Yf\]bXYfb"'5i Wk'X]Y'[YgUa hY'G]hi Uh]cb
ni f'NY]h'XYg'I bZU``g'k]fX'[YbUi Yf'i bhYfgi Wkh"'?ÒbbhY'XUg
JcfUi gfY]hYb'Y]bYf'6Y[`Y]hdYfgcb'Ui Z'Y]bYa 'K Ufbg][bU`Ub`U[Y
Y]bY'@Ògi b['[Yk YgYb'gY]b3': fU[Yb'k]Y'X]YgY'_ObbhYb']b'XYb
_ca a YbXYb'K cWkYb'j cb'[fc»Yf'6YXYi hi b['gY]b"

 $8]Y `F Y]h[Ya Y]bgWX UZh `]b `XYf `F Y[]cb `ghY \ h `i bhYf `GWX c W_ž `i b X j]Y `Y : fYi b XY `i b X : Ua]`]Y b Ub [Y \ Of][Y `g]b X `ni h]Y Zgh `V Y h f c ZZY b j cb `XYa `J Yf `i gh" `8]Y `Hf U[]_ `XYf `G]hi Uh]cb `k]f X `k Y]hYf \]b `]b hY b g]j X]g_i h]Yfh `i b X `k]f Zh : f U[Yb `Ø V Yf `X]Y `G]WX Yf \ Y]h `V Y]a `F Y]hYb `]b 6 Yf Y]WX Yb `Ui Zž `X]Y ``Ub Xk]f hg WX UZh `] WX `[Yb i hnh `k Yf X Yb "$

8 Yf'J cfZU```]gh'b]W\h'bi f'Y]b'hfU[]gW\Yg'9fY][b]g'ZØf'X]Y'VYhfcZZYbY: Ua]`]Yž'gcbXYfb'k]fZh'Ui W\': fU[Yb'ni 'XYbG]W\Yf\Y]hga U» bU\a Yb'Ui Z``UbXk]fhgW\UZh`]W\'[Ybi hnhYb': `ÀW\YbUi Z'`FY]hYf'\UVYb'XUg'FYW\hž'g]W\'Ui W\'Ui Z': Y`Xk Y[Yb'g]W\Yf'ni ZØ\`Ybž'i bX'Yg'VYghY\h'XYf'Xf]b[YbXY'6YXUfZž'ØVYfG]W\Yf\Y]hgdfchc_c``Y'bUW\ni XYb_Ybž'i a 'I bZ\``Y'X]YgYf'5fh']b'XYf Ni_i bZh'ni 'j Yfa Y]XYb"

HfU[]gWXY'I a ghÀbXY'ZØf''i b[Y'FY]hYf

I bZÀ``Y'VY]a 'FY]hYb'g]bX'nk Uf'gY`hYbž'XcW\'g]Y'_ÒbbYb
j Yf\YYfYbXY'?cbgYei YbnYb'\UVYb"'8 Ug'hfUi f][Y'GW\]W_gU`'X]YgYf
'\b[Yb'FY]hYf]b'Yf]bbYfh'i bg'XUfUbž'k]Y'nYfVfYW\`]W\'XUg'@YVYb
]gh'i bX'k]Y'gW\bY```Yg'g]W\'ÀbXYfb'_Ubb"'9g']gh'j cb'bUhØf`]W\Yf

6YXYi hi b[žXUgg'U``Y'6YhY]`][hYb' 'j cb'XYb'@UbXk]fhYb'V]g'ni XYb'FY]hYfb' ']\fYb'HY]`'XUni 'VY]hfU[Ybži a 'X]Y'G]W\Yf\Y]h'ni Yf\Ò\Yb" + b]h]Uh]j Yb'ni f': ÒfXYfi b['Y]bYg'VYggYfYb'A]hY]bUbXYfg nk]gW\Yb'`UbXk]fhgW\UZh`]W\Yb'6Yhf]YVYb'i bX
FY]hYf[YaY]bgW\UZhYb'g]bX'i bYf`Agg`]W\ži a 'JcfZA``Y'k]Y'X]YgYb]b'XYf'Ni_i bZh'ni 'a]b]a]YfYb"

±g[YgUa hi]ghiYgiYggYbn]Y``žiXUggiU``Yi: U_hcfYbžiX]Yini iX]YgYa hfU[]gWXYbJcfZU```[YZØ\fhi\UVYbžigcf[ZÀ`h][iVYhfUWXhYhik YfXYb" BifiXifWXiia ZUggYbXYi5bU`mgYbiibXiXYbi8]U`c[ink]gWXYb 6YhY]`][hYbi_ÒbbYbi_ØbZh][iG]WXYf\Y]hgghUbXUfXgiYbhk]W_Y`h k YfXYbžiX]Y'\Y`ZYbžigc`WXYihfU[]gWXYbilbZÀ``YiniijYf\]bXYfb"

"8 Yf'nfU[]gWXY'JcfZU``'Ui Z'FØ[Yb'k]fZh'b]WX h'bi f': fU[Yb'ØVYf'X]YG]WXYf\Y]h']a 'GhfU» Ybj Yf_Y\f'Ui Zž'gcbXYfb'Ui WX'ØVYf'X]YU``[Ya Y]bYb'6YX]b[i b[Ybž'i bhYf'XYbYb'FY]hYf'i bX`\UbXk]fhgWXUZh`]WXY'A UgWX]bYb'ni gUa a Yb_ca a Yb"'\delta'XYb\YhnhYb'\day\fYb'[UV'Yg']a a Yf'k]YXYf'6Yf]WX hY'ØVYf'À\b`]WXYI bZÀ``Yž'VY]'XYbYb'FY]hYf']b'XYf'BÀ\Y'j cb'`UbXk]fhgWXUZh`]WXYb; YfÀhYb'[YZÀ\fXYh'kUfYb"'

"G]WXYf\Y]h'Ui Z'XYa '@UbXž']bgVYgcbXYfY']a '<]bV`]W_'Ui Z'X]Y ?cYl]ghYbn'j cb'FY]hYf'i bX'`UbXk]fhgWXUZh`]WXYa 'JYf_Y\fž']gh'Y]b _ca d`Yl Yg'H\Ya U"'K À\fYbX'`UbXk]fhgWXUZh`]WXY'6Yhf]YVY'cZh'Ui Z Yb[ghY': Y`XYf'i bX'K Y[Y'Ub[Yk]YgYb'g]bXž'VYbÒh][Yb'FY]hYf g]WXYfY'Fci hYbž'i a 'l bZÀ``Y'ni 'j Yfa Y]XYb"'8 Ug'6Yk i gghgY]b'ZØf X]YgY'DfcV`Ya Uh]_Yb']gh']b'XYf'@UbXVYj Ò`_Yfi b['i bX'VY]'XYb @UbXk]fhgWXUZhgVYhf]YVYb'j cb'[fc»Yf'6YXYi hi b["'

F]g]_cZU_hcfYb ZØfFY]hYfi bX @UbXk]fhY

"GhUh]gh]_Yb'nY][Ybž'XUgg']a "ÀbX`]WXYb'FUi a 'XUg'F]g]_c'j cb I bZÀ``Yb'a]h'`UbXk]fhgWXUZh`]WXYb': U\fnYi [Yb'\Ò\Yf']gh"'@Ui h XYa '8 Yi hgWXYb'J Yf_Y\fgg]WXYf\Y]hgfUh'f8 J F L'[UV'Yg']b'XYb 'YhnhYb' \\\J\fYb'Y]bYb'5bgh]Y['XYf'J Yf_Y\fgi bZÀ``Y']b 'UbXk]fhgWXUZh`]WXYb'; YV]YhYbž'X]Y'gck c\`': i » [Àb[Yf'U`g'Ui WX FY]hYf'VYhfUZYb"'9g']gh'k]WXh][ž'XUgg'U``Y'JYf_Y\fghY]`bY\a Yfž Y]bgWX`]Y » `]WX @UbXk]fhY'i bX'FY]hYfž'g]WX']\fYf'I a [YVi b[

VYkigghg]bXibXYbhgdfYWXYbXYJcfg]WXhgaU»bU\aYbhfYZZYb"

"8Yf'9]bgUhn'j cb'K UfbgmghYa Ybž'GW\i`i b[Yb'ZØf'@UbXk]fhY'ØVYf XYb'I a [Ub['a]h'fY]hYbXYb'JYf_Y\fghY]`bY\a Yfb'i bX'VYggYfY A Uf_]Yfi b[Yb'j cb'FY]hk Y[Yb'_ObbhYb'XUni 'VY]hfU[Ybž'X]Y G]W\Yf\Y]h'ni 'Yf\O\Yb"'=b'Y]b][Yb'FY[]cbYb'8Yi hgW\`UbXg k YfXYb'VYfY]hg'Dfc[fUa a Y'ni f'GYbg]V]`]g]Yfi b['j cb'@UbXk]fhYb i bX'FY]hYfb'i a [YgYhnhž'i a 'X]YgY'N]Y`[fi ddYb'ØVYf'[Y[YbgY]h][YFØW_g]W\hbU\a Y'ni ']bZcfa]YfYb"'

FY[i`Uhcf]gWXY'A U» bU\a Yb'ni f JYfVYggYfi b['XYf'G]hi Uh]cb

"#D"j]Y`Yb'6i bXYg`ÀbXYfb'Yl]gh]YfYb'FY[Y`i b[Yb'ni f
?YbbnY]W\bi b['j cb'FY]hk Y[Yb'i bX'ni 'XYb'6YX]b[i b[Ybži bhYf
XYbYb'`UbXk]fhgW\UZh`]W\Y': U\fnYi [Y'VYhf]YVYb'k YfXYb'XØfZYb"
#D'GW\`Ygk][!<c`ghY]b'VY]gd]Y`gk Y]gY'g]bX'@UbXk]fhY'j YfdZ]W\hYhž
]\fY': U\fnYi [Y'ni 'a Uf_]YfYbž'i a 'X]Y'G]W\hVUf_Y]h'ni 'Yf\Ò\Yb
i bX'XUa]h'I bZ\`Y'ni 'j Yfa Y]XYb"'8]YgY'A U» bU\a Yb'_ObbhYb
Ui W\'Ui Z'UbXYfY'FY[]cbYb'Ui g[Yk Y]hYh'k YfXYbž'i a 'X]Y
G]W\Yf\Y]h'ni 'Yf\O\Yb"

"8 UfØVYf"\]bUi g'_ÒbbhYb 'gdYn]Y``Y 'GW\i `i b[Yb 'ZØf'HfU_hcfZU\fYf Y]b'k]W\h][Yf'GW\f]hh'gY]bži a 'XUg'6Yk i gghgY]b 'ZØf'FY]hYf']a J Yf_Y\f'ni 'gW\AfZYb"'8]Yg'_ÒbbhY'\Y`ZYbž'[YZ\\f`]W\Y'G]hi Uh]cbYb ZfØ\nY]h]['ni 'Yf_YbbYb'i bX'YbhgdfYW\YbXY'A U bU\a Yb'ni Yf[fY]ZYbž'i a 'I bZ\``Y'ni 'j Yfa Y]XYb"

8 Y hU1`a

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