

## GWX k YfYf'I bZU``'Ui Z'XYf'5+.'K c\ba cV]` nk ]gWXYb'@\_k 'Y]b[Y\_`Ya a h

GWk YfYf'I bZU```Ui Z'XYf'5+'VY]'? UggY`. K c\ba cV]` Y]b[Yei YhgWkh'nk]gWkYb'@?K"': Yi Yfk Y\f'fYhhYh' \dgUggYb/ 5i hcVU\b'[YgdYffh"

5a BUWXa]hhU[ XYgjYf[Ub[YbYb A]hhk cWXgYfY][bYhY g]WX Ui Z XYf 5i hcVU\b 5+ VY] ?UggY`Y]b gWXkYfYf JYf\_Y\fgi bZU``ž XYf nU\`fY]WXY FYhhi b[g\_fÀZhY a cV]`]g]YfhY" 8Yf J cfZU``YfY][bYhY g]WX [Y[Yb%)"() I\f nk]gWXYb XYb 5bgWX`i ggghY``Yb?UggY`BcfX i bX?UggY`GØX]bY]bYa ghUf\_ ZfYei Ybh]YfhYb 6Ui ghY``YbVYfY]WX" Ni X]YgYa NY]hdi b\_h ghUi hYb g]WX X]Y : U\fnYi [Y Ui Z[fi bX XYf GhfU $_{}$ YbUfYY]hYbž'k Ug'ni 'Y]bYa 'JYf\_Y\fg]bZUf\_h'ZØ\fhY"

9]b K c\ba cV]`ž ]b XYa g]W nk Y] DYfgcbYb VYZUbXYbž k Uf [Ynk i b[Ybž Ub\U`hYb ni a ØggYbž i a XYb j cf]\bYb ghY\YbXYb JYf\_Y\f ni VYfØW\_g]W\h][Yb" Hfchn X]YgYf J cfg]W\hga U» bU\a Y gW\AhnhY Y]b bUW\Zc`[YbXYf @ K X]Y G]hi Uh]cb cZZYbg]W\h`]W\ZU`gW\Y]b i bX dfU``hY i b[YVfYa gh Ui Z XUg K c\ba cV]`" 8Yf 5i ZdfU`` k Uf gc \YZh][ž XUgg XUg K c\ba cV]` nk ]gW\Yb X]YgYa @ K i bX Y]bYa k Y]hYfYb @ K Y]b[Y\_`Ya a h k i fXYž k Ug Xf]b[YbXY`FYhhi b[ga U» bU\a Yb`YfZcfXYf`]W\`a UW\hY"

### FYhhi b[g\_fàZhY']a '9]bgUhn

8]Y DgUggYb XYg K c\ba cV]`g a i gghYb a ]h gWkk YfYa ; YfÀh Xi fWk X]Y : Yi Yfk Y\f VYZfY]h k YfXYb" BUWk XYf 9fghj Yfgcf[i b[Ub XYf I bZU``ghY``Y k i fXYb g]Y i a [Y\YbX]b Y]b bU\Y[Y`Y[YbYg?fUb\_Yb\Ui g[YVfUWkh"8]Y : Yi Yfk Y\f gd]Y`hY Y]bY nYbhfU`Y Fc``YVY] XYf G]WkYfi b[XYf; UgZUgWkYb XYg K c\ba cV]`gž k cXi fWkkY]hYfY ; YZU\fYb k À\fYbX XYf FYhhi b[gUfVY]hYb j Yfa]YXYb

### I bhYfVfYWXi b[ 'XYg'J Yf\_Y\fg'i bX GUWXgWX UXYb

8]Y GWX k YfY XYg I b ZU``g nY][ h g]WX b]WX h bi f ]b XYb \_OfdYf`]WX Yb : c`[ Yb ZØf X]Y =bgUggYb XYg K c\ba cV]`gž gcbXYfb Ui WX ]b XYa [ YgWX ÀhnhYb GUWX gWX UXYbž XYf g]WX Ui Za ]bXYghYbg \* \$"\$\$\$ 9i fc VY`Ài Zh" Gc`WX Y =bg]XYb k YfZYb : fU[ Yb ni f J Yf\_Y\fgg]WXYf\Y]h ]b 6Ui ghY``YbVYfY]WX Yb Ui Zi bX a UWX Yb XYi h`]WX žk ]Y k ]WX h][ Yg ]ghž VY] GhUi g i bX I bYVYb\Y]hYb Ui Z XYf : U\fVU\b VYgcbXYfg j cfg]WX h][ 'ni 'gY]b"

9g ]gh VYXYb\_`]W\ž XUgg hfchn \_`UfYf JYf\_Y\fgUbnY][Yb i bX XYf 5i ZZcfXYfi b[ž]b 6Ui ghY``YbVYfY]W\Yb `Ub[gUa Yf ni ZU\fYbž]a a Yf k]YXYf I bZÀ``Y X]YgYf 5fh [YgW\Y\Yb" 8]Y [YbUi Y I bZU``i fgUW\Y k]fX XYfnY]h j cb XYb 9fa]hh`i b[gVY\ÒfXYb ØVYfdfØZhži a a Ò[`]W\Y G]W\Yf\Y]hga U» bU\a Yb ni f J Yfa Y]Xi b[gc`W\Yf'[YZÀ\f`]W\Yb'6Y[Y[bi b[Yb'ni 'Yfi]YfYb"

8]Y 9fY][b]ggY X]YgYf 5fh Yf]bbYfb i bg XUfUbž k]Y gWkbY``Y]bbcfa U`Yf: U\fhj Yf`Ui Z]bY]bYa Yfbgh\UZhYb JcfZU``YbXYb \_Ubb": U\fnYi [ZØ\fYf gc``hYb g]Wk ghYhg VYk i ggh a UWkYbž XUgg; YgWkk]bX][\_Y]h i bX 5i Za Yf\_gUa \_Y]h X]fY\_h X]Y G]WkYf\Y]h Ui Zi bgYfYb GhfU»Yb VYY]bZi ggYb"

### $JYf_Y\fgg]WXYfY]h^a : c_i g$

9]b k Y]hYfYf nYbhfU`Yf Di b\_hž XYf Ui g X]YgYa JcfZU``\Yfj cf[Y\hž]gh X]Y 6YXYi hi b[ XYf JYf\_Y\fgg]W\Yf\Y]hž VYgcbXYfg ]b 6Ui ghY``YbVYfY]W\Yb" 5i hc ZU\fYf g]bX Ub[Y\U`hYbž VYgcbXYfg UW\hgUa ni gY]b i bX X]Y; YgW\k]bX][\_Y]h ni fYXi n]YfYbž k Ybb g]Y Ui ZGhUi g cXYf 5VgdYffi b[Yb hfYZZYb" 8 Ug J Yfgh\AbXb]g ZØf X]Y G][bU`Y XYf JYf\_Y\fg`Y]hgmghYa Y a i gg [YZYgh][h k YfXYbž i a I bZ\A``Y ni j Yf\]bXYfb i bX X]Y G]W\Yf\Y]h U``Yf J Yf\_Y\fghY]`bY\a Yf`ni [Yk \A\f`Y]ghYb"

# I fgUWX Yb i b X F ]g]\_c ZU\_hc f Yb j c b J Yf\_Y\fgi b ZÀ``Yb

JYf\_Y\fgi bZÀ``Y'\_ObbYb`Y]bY'J]Y`nU\``j cb`l fgUW\Yb`\UVYbžX]Y
j cb`a YbgW\`]W\Ya 'JYfgU[Yb`V]g`ni 'j YfgW\]YXYbYb

I a [YVi b[gZU\_hcfYb`fY]W\Yb"'+b`X]YgYa ': U```\_ObbhY`Y]b`nYbhfU`Yg

DfcV`Ya 'XUg`l bhYfgW\AhmYb`XYg`5VghUbXg`ni 'j cfUbZU\fYbXYb

: U\fnYi [Yb`[Yk YgYb`gY]bžY]b`\Ai Z][Yg`F]g]\_cž]bgVYgcbXYfY`Ui Z

5i hcVU\bYbžk c'; YgW\k]bX][\_Y]hYb`\cW\'g]bX"'@Ui hY]bYf`Ghi X]Y

XYg`8Yi hgW\Yb`JYf\_Y\fgg]W\Yf\Y]hgfUhg`f8JGF\Lg]bX`Yhk U`&, I

U``Yf`gW\kYfYb`JYf\_Y\fgi bZ\``Y`]b`8Yi hgW\`UbX`Ui Z'5i ZZU\fi bZ\``Y

ni f@W\_ni Z@\fYbž'X]Y`cZh'Xi fW\`5V`Yb\_i b[ž'A @X][\_Y]h`cXYf

@VYf\O\hY'; YgW\k]bX][\_Y]h'j Yfi fgUW\h'k YfXYb"'Gc`W\Y

GhUh]gh]\_Yb`j YfXYi h`]W\Yb`X]Y`Bchk YbX][\_Y]hž'XUg`6Yk i gghgY]b`Z@f

q]W\YfYg': U\fj Yf\U`hYb`ni 'qW\AfZYb"

#### FY`Yj Ubn'XYf'FYhhi b[qX]YbqhY

 $8 \ Uf \emptyset VYf' \ ]bUi g']gh'X]Y'G]WXYfghY``i b['j cb'; UgZUgWXYb'Ub'Y]bYa I bZU``cfhž'k ]Y'Yg' \ ]Yf'VY]'XYa 'K c\ba cV]'`XYf': U```k Ufž'j cb Ài <math>\ YfghYf'K \ ]WXh][\ _Y]h''; UgZUgWXYb'\_ObbYb'VY]'6YgWXAX][\ i b[\ YI d`cX]YfYb'i bX'Y]bY'ni gÀhn`]WXY'; YZU\f'ZØf'FYhhi b[g_fÀZhY'i bX N]j ]`]ghYb'XUfghY``Yb''8U\Yf'g]bX'g]Y'Y]bY'XYf'YfghYb'Df]cf]hÀhYb ZØf'9]bgUhn_fÀZhY'Ub'Y]bYa 'I bZU``cfh''$ 

## 5\_hi Y``Y'GhUh]gh]\_Yb'ni 'J Yf\_Y\fgi bZÀ``Yb']b 8 Yi hgWX`Ub X

BUWW.15b[UVYb:XYg:GhUh]gh]gWW.Yb:6i bXYgUa hYg:\_Ua :Yg:]a :\\f\\ \&\&\.\]b:8Yi hgWW.\UbX:ni :fi bX:\&\.\z\*:A]\`]cbYb:dc\]nY]\]WW\\fY[]ghf]YfhYb:JYf\_Y\fgi bZ\\`Yb":5i Z:X]YgYb:NU\`Yb:VUg]YfYbX\\z\*\fYgi \h]YfYb:\ØVYf'' \\$\\$"\\$\\$\X]YgYf:I bZ\\`Y:]b:DYfgcbYbgWW.\AXYb\\z\*\fYgi \h]YfYbXY:FUhY:XUfghY\`\h":8]Y:5bgh]Y[:XYf:I bZ\\`Y:nY][h\\z\*\fYgg'hf: U\fnYi [hYWW.bc\c[]Yb:i bX\]G]WW.Yf\Y]hggmghYa Yb:XYf'a YbgWW.\]WW.Y::U\_hcf'i bX\[i bj cf\Yf[YgY\YbY:JYf\_Y\fgg]hi Uh]cbYb:k Y]hYf\]b:Y]bY:[fc\xYf]

8]Y'[fc»Yb'5i hcVU\bYbžk]Y'X]Y'5+žj YfgW\ÀfZYb'X]YgY'G]hi Uh]cb Xi fW\']\fY'\c\Y'JYf\_Y\fgVY`Ughi b[ž']bgVYgcbXYfY'k À\fYbX'XYf : Yf]YbnY]hYb'i bX'Ub'K cW\YbYbXYbž'k Ybb': Ua ]`]Yb'fY]gYb'i bX XYf'; ØhYfhfUbgdcfh'ni b]a a h"'=bg[YgUa h'nY][h'X]Y'@U[Yž'XUgg'Yg bcW\'Yf\YV`]W\Yb'<UbX`i b[gVYXUfZ'[]Vhži a 'X]Y

#### 8 Y hU]`c

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