

## 6Yhfi [gk Ufbi b[. 'J cfg]WX h'j cf 'ZU`gWX Yb GdYbXYbgUa a `Yfb ']b ; fY]Zgk U`X

8]Y'Dc`]nY]'k Ufbh'j cf'ZU`gWXYb'GdYbXYbgUa a `Yfb']a @UbX\_fY]g'J cfdca a Yfb!; fY]Zgk U`X"'GY]Yb'G]Y'j cfg]WXh][ i bX'ØVYfdfØZYb'G]Y'Cf[Ub]gUh]cbYb°

K UW gUa Y 6Øf[Yf i b X X]Y
< YfUi gZcfXYfi b[Yb XYf
GdYbXYbVYfY]hgW UZh</pre>

; fY]Zgk U`X flchgl:

±b`XYb``YhnhYb`K cW\Yb`k i fXY`X]Y`6Yj Ò`\_Yfi b[`]a '@UbX\_fY]g

J cfdca a Yfb!; fY]Zgk U`X`a ]h`Y]bYf`U`Ufa ]YfYbXYb`K Ufbi b[
\_cbZfcbh]Yfh"`K Ybb`^Ya UbX`Ui Z`XYf`GhfU» Y`i a '; Y`X`V]hhYhž`k ]fX

cZh`gW\bY```Ub`X]Y`ZfY]k ]``][ Y`I bhYfghØhni b[`[ YXUW\h"`8 Ug`hi h`Ui W\
X]Y`Dc`]nY]ž`X]Y`j cf`ZU`gW\Yb`GdYbXYbgUa a `Yfb`Y]bXf]b[`]W\
k UfbhYž`X]Y`g]W\`U`g`J YfhfYhYf`j cb`6Y\]bXYfhYbj YfVÀbXYb

Ui g[ YVYb"

#### A UgWXY XYf 6YhfØ[Yf

8]Y'V]g`Ub['Ui Z[YhfYhYbYb'6Yhfi [gZÀ``Y'YfY][bYhYb'g]W\\Ui dhgÀW\`]W\']b'ghUf\_'ZfYei Ybh]YfhYb'6YfY]W\Ybž'XUfi bhYf'XYf
DUf\_d`Uhn'Y]bYg'F9K9!AUf\_hYg']b'; fY]ZgkU`X'i bX'ÒZZYbh`]W\Y
D`ÀhnY'Ui Z'XYf'\DgYXca"'5a'%'"'5i [igh'\\$\( (kifXYb'nkY))

A ÀbbYf'VYcVUW\hYhž'X]Y'U[ [fYgg]j ii a 'GdYbXYb'ZØf'<UbX]WUd ♣bhYfbUh]cbU`'VUhYb"'5i Za Yf\_gUa Y'6Øf[Yf'VYa Yf\_hYb'gW\bY``ž XUgg'X]Y'[YgUa a Y`hYb'I bhYfgW\f]ZhYb'i b[Yk Ò\b`]W\'Y]b\Y]h`]W\ k UfYbž'k Ug'J YfXUW\h'YffY[hY"

#### 6YfY]hgWXUZh'ni f'GdYbXY'i bhYf'8fi W\_

FY[Y`a À»][ j Yfgi WXYb; fi ddYb j cb HÀhYfbž DUggUbhYb a ]h dfc ZYgg]cbY``Ui ggY\YbXYb'? Ya a VfYhhYfb i bX j cf[YhÀi gWXhYb gUa a `i b[gVYnc[YbYb'; YgdfÀWXYb i bhYf 8 fi W\_ni gYhnYb" 8]YgY A UgWXY Vf]b[h'b]WXh'bi f'X]Y CdZYf']b gWXk]Yf][Y'G]hi Uh]cbYbž gcbXYfb gWXÀX][h'Ui WX X]Y'; `Ui Vk ØfX][\_Y]h'XYf'nU\`fY]WXYb YWXhYb GUa a `Yfž'X]Y ZØf'k c\`hÀh][Y'Nk YW\_Y'UfVY]hYb" 8 U'X]Y Dc`]nY]'XUj cb'Ui g[Y\hž'XUgg'X]YgY'5\_h]j ]hÀhYb'U`g'6Yhfi [gXY`]\_hYY]b[Yghi Zh'k YfXYbž'k YfXYb'X]Y'6Øf[Yf'Ui Z[YZcfXYfhž'VYgcbXYfgj cfg]WXh][ 'ni 'gY]b"

### Jcfg]Wkh']gh'[YVchYb

K ]Y 'Y]bY 'k Y]hY fY 'K Ufbi b[ 'nY][ hž Yf`]hhY b 'gY`Vgh`6Øf[ Yf 'k À\fYbX gc`W\Yf'; YgdfÀW\Y'8]YVghÀ\`Y"'9]b 'J cfZU```]b '? cgYfck 'YVbYhY 'XYb K Y[ 'ZØf'i bVY\U[`]W\Y'9f`YVb]ggYž'U`g'Y]b 'A Ubb 'i a 'gY]bY 5i Za Yf\_gUa \_Y]h'[ YVYhYb 'k i fXY'i bX 'XUg'A cV]`hY`YZcb 'Ui g gY]bYa 'Fi W\_gUW\_'Ybhk YbXYh'k i fXY"'8]YgY'; YgW\]W\hYb i bhYfghfY]W\Yb 'X]Y 'B chk YbX][ \_Y]h'Y]bYf'U\_h]j Yb 'K UW\gUa \_Y]hž k Ybb'a Ub 'Ui g'J YfhfUi YbggUW\Yb 'GdYbXYb'`Y]ghYb'a ÒW\hY"

# 9]b 5i Zfi Z ni f I bhYfghØhni b[ 'Y W hYf < ]`Zgcf[ Ub]gUh]cbYb

 $8 ]Y `Dc`]nY] `ibX`gYf] OgY`<]`Zgcf[Ub]gUh]cbYb`fiZYb`X]Y `6Øf[Yf`nifGcf[ZU`h`UiZ''; fibX`Y[YbXY`AU»bU\aYbž`ia`Z\A`gW\`]W\U[]YfYbXYb`GUaa`Yfb`Ybh[Y[YbnihfYhYbž`VY]b\U`hYb.$ 

- VYfdfØZYb'G]Y'[YbUižkYa'G]Y'⇒f; Y`X'UbjYfhfUiYb"
- ; YVYb G]Y \_Y]b ; Y `X `Ub ii bVY\_UbbhY `DYfgcbYb"
- @UggYb'G]Y'g]W\'b]W\h'i bhYf'8fi W\_'gYhnYb"

- GY]YbG]Yicfg]WXh][a]h=fYbdYfgOb]WXYb8UhYb"
- VYfdfØZYb'G]Y'gY`Vgh'X]Y'@Y[]h]a]hÀh'XYf'Cf[Ub]gUh]cbYbž VYj cf'G]Y'qdYbXYb"
- ±b Zcfa ]YfYb 'G]Y '[ Y[ YVYbYb ZU``g'X]Y 'Dc`]nY] 'gc Zcfhž'k Ybb ⇒bYb 'Yhk Ug'j YfXÀW\h][ 'j cf\_ca a h"

## 9b[U[]YfhY'; Ya Y]bgW\UZhYb'U`g'g]W\YfYf < UZYb

 $\pm 0.7 \ ]YYYb; Ya Y]bXYb [ ]VhYg Ui gfY]WXYbX; YY[ YbY]hžYWXhY i bX j YfhfUi Ybgk ØfX][ YK c\hÀh][ _Y]hgUfVY]hini ii bhYfghØhnYb "@c_UY Cf[ Ub]gUh]cbYb g]bX cZh`Y]WXhTUi gni a UWXYb. G]Y `\UVYb cZhY]bY _`UfY =\XYbh]hÀh`Xi fWX @c[ cgž \pZcfa UbhYb ii bX gdYn]Z]gWXY GhUbXcfhY " < ]Yf _Ubb GdYbXYb b]WXh'bi f`Y]b '9\fYbUa hž gcbXYfb Ui WX Y]bY < YfnYbgUb[ YY[ Yb\Y]h`k YfXYb"; Ya Y]bgUa _\ObbYb 6Øf[ Yf gca ]h`b]WXh'bi f`\Y`ZYbž gcbXYfb Ui WX XUZØf gcf[ Ybž XUgg GdYbXYb k ]f_`]WX Xcfh`Ub_ca a Ybž k c' < ]`ZY Xf]b[ YbX VYbOh][ h k ]fX"$ 

•

8 YhU]`g

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