

## 5bh]\_c``]g]cbggmghYa Y ZØf J Ò[ Y`. A Ò[`]WX\_Y]hYb i bX; fYbnYb ! 9l dYfhYb X]g\_i h]YfYb ]b 6UmYfb

@YgYb'G]Y']b'X]YgYa '5fh]\_Y`XUg': Un]h'XYf'YfghYb
VUmYf]gWXYb'HU[ib['nif'JYfY]bVUf\_Y]h'jcb'K ]bXYbYf[]Y
ibX'5fhYbgWXihn'XifWX'5bh]\_c``]g]cbggmghYa Y"'9IdYfhYb
X]g\_ih]YfYb'X]Y'AÒ[`]WX\_Y]hYb'ibX'; fYbnYb'jcb
5bh]\_c``]g]cbggmghYa Yb'ZØf'JÒ[Y`ibX'k]Y'X]YgY'nif
JYfa Y]Xib['jcb'Jc[Y`\_c``]g]cbYb'VY]hfU[Yb'\_ObbYb"
9]bV`]W\_Y'\_ca a Yb'jcb'JYfhfYhYfb'XYg'@6JžXYg'?B9'ibX
XYg'6UmYf]gWXYb'GhUUhga ]b]ghYf]ia g'ZØf'K ]fhgWXUZhž
@UbXYgYbhk]W\_`ib['ibX'9bYf[]Y"'9fZU\fYb'G]Y'a Y\f'ØVYf
X]Y'Fc``Y'jcb'5bh]\_c``]g]cbggmghYa Yb'VY]a '5igVUi'XYf
K ]bX\_fUZh']a '9]b\_`Ub['a]h'XYa '5fhYbgWXihn'ibX'X]Y
U\_hiY``Yb'AÒ[`]WX\_Y]hYb'ibX'<YfUigZcfXYfib[Yb']b'6UmYfb"

5a 'j Yf[ Ub[ YbYb'K cWXYbYbXY'ZUbX']b'6UmYfb'X]Y'YfghY'HU[ i b[ ni f'J YfY]bVUf\_Y]h'j cb'K ]bXYbYf[ ]Y'i bX'5fhYbgWXi hn'Xi fWX?c``]g]cbggWXi hngmghYa Y'ghUhh'''NU\`fY]WXY'9I dYfhYb'i bX 9I dYfh]bbYb'Ui g'XYa '6YfY]WX'BUhi fgWXi hn'i bX'YfbYi YfVUfYf 9bYf[ ]Yb'hfUZYb'g]WXž'i a 'ØVYf'X]Y'A Ò[ `]WX\_Y]hYb'i bX'; fYbnYb j cb'5bh]\_c``]g]cbggmghYa Yb'f5?GŁ'ZØf'J Ò[ Y`'ni 'X]g\_i h]YfYb'''8]YgY GmghYa Y'gc``Yb'XUni 'VY]hfU[ Ybž'?cbZ]\_hY'a ]h'XYa '5fhYbgWXi hn ni 'a ]bXYfb'i bX'gc'XYb'5i gVUi 'j cb'K ]bX\_fUZhUb`U[ Yb bUhi fj YfhfÀ[ `]WXYf'ni '[ YghU`hYb''

 $8 ]Y `HU[ib[ikifXY'] ca `VUmYf]gWXYb `BUhifgWXihnjYfVUbX`@6Jž XYa `?ca dYhYbnnYbhfia `BUhifgWXihn'ibX`9bYf[]YkYbXY`ff?B9kibX`XYa `6UmYf]gWXYb `GhUUhga]b]ghYf]ia `ZØf`K]fhgWXUZhž @UbXYgYbhk]\W_`ib[ibX`9bYf[]Y`cf[Ub]g]Yfh'' 8 Yf`@6J`VYhcbhY`X]YBchkYbX][_Y]h'Y]bYf`gcf[ZÀ`h][Yb `GhUbXcfhkU\``ZØf K]bX_fUZhUb`U[Ybžia `XUg'; YZÀ\fXib[gf]g]_c`ZØf`VYhfcZZYbY$ 

8]Y'ghY``j YfhfYhYbXY'8]fY\_hcf]b'XYg'?B9ž'8f"'9`\_Y'6fi bgž'k]Yg
XUfUi Z'\]bž'XUgg'5bh]\_c``]g]cbggmghYa Y'XYfnY]h'bcWX'gY\f
\_cghgd]Y`]['g]bX'i bX'gca ]h'j cf'U``Ya 'Ub'YfhfU[ ggWXk UWXYb
GhUbXcfhYb'bi f'VY[ fYbnh'Y]b[ YgYhnh'k YfXYb'\_ObbYb"'8]Yg']gh
Ui WX'Y]b'fY`Yj UbhYf'5gdY\_h'ZØf'6Yf`]bž'XU'X]Y'5i gk U\``XYf
GhUbXcfhY'j cb'K ]bX\_fUZhUb`U[ Yb'cZh'Ui Z[ fi bX'k ]fhgWXUZh`]WXYf
, VYf`Y[i b[ Yb'[ YhfcZZYb'k ]fX"'8]Y'?cghYb'i bX'X]Y'K ]f\_gUa \_Y]h
j cb'5bh]\_c``]g]cbggmghYa Yb'gd]Y`Yb'XU\Yf'Ui WX']b'6Yf`]b'Y]bY
k ]WXh][ Y'Fc``Y"

6UmYfbg'K ]fhgWXUZhg!'i bX'9bYf[]Ya ]b]ghYf'<i VYfh'5]k Ub[YfÀi »YfhY'X]Y'N]Y`gYhni b[ž'V]g'&\$' \$'%"\$\$\$'bYi Y
K ]bXYbYf[]YUb`U[Yb'ni 'Yff]WXhYbž'i bX'VYhcbhY'X]Y'6YXYi hi b[jcb'bUhi fj YfhfÀ[`]WXYb'@Ògi b[Yb"'5i WX'ZØf'6Yf`]b']gh'Y]bY
bUhi fj YfhfÀ[`]WXY'9bYf[]Yk YbXY'j cb'[fc»Yf'6YXYi hi b[ž'i a 'X]Y
I a k Y`h'ni 'gWX ØhnYb'i bX'Ui Z'YfbYi YfVUfY'9bYf[]Yb'i a ni ghY][Yb"

A ]h'XYf'Bcj Y``Y'XYg'6i bXYgbUhi fgWki hn[ YgYhnYg'k i fXYb 5bh]\_c``]g]cbggmghYa Y'U`g'Y]bY'a Ò[`]WkY'GWki hna U» bU\a Y ZYgh[Y`Y[ hži a 'XUg'?c``]g]cbgf]g]\_c'j cb'J Ò[Y`b'a ]h K ]bXYbYf[ ]YUb`U[ Yb'ni 'j Yfa ]bXYfb"'8]YgY'Jcf[ UVYb'VYhfYZZYb b]Wkh'bi f'6UmYfbž'gcbXYfb'\UVYb'5i gk ]f\_i b[ Yb'Ui Z'[ Ubn 8 Yi hgWk`UbXž'Y]bgWk`]Y»`]Wk'6Yf`]b"'9g']gh'k ]Wkh][ ž'XUgg'gc`WkY GWki hna U» bU\a Yb'b]Wkh'bi f'[ YgYhn`]Wk'j YfUb\_Yfh'g]bXž'gcbXYfb Ui Wk'U\_h]j 'i a [ YgYhnh'k YfXYbž'i a 'X]Y'5i gk ]f\_i b[ Yb'j cb K ]bXYbYf[ ]YUb`U[ Yb'Ui Z'X]Y'Jc[ Y`k Y`h'gc'[ Yf]b[ 'k ]Y'a Ò[`]Wk'ni \U`hYb"

±g[YgUa h'nY][h'X]Y'HU[ib[']b'6UmYfbž'XUgg 5bh]\_c``]g]cbggmghYa Y'ZØf'JÒ[Y`'Y]b'k]W\h][Yg'±bghfia Ybh']a FU\a Yb'XYg'5fhYbgW\i hnYg'XUfghY``Yb'\_ÒbbYb"'≒\fY K Y]hYfYbhk ]W\_`i b[ 'i bX`YZZY\_h]j Y`5bk YbXi b[ 'g]bX`YbhgWkY]XYbXž i a 'Y]bY`bUhi fj YfhfÀ[ `]WkY`9bYf[ ]Yk YbXY`ni `[ YghU`hYbž'X]Y [ `Y]Wk nY]h][ `XYb`GWki hn`XYf`Jc[ Y`k Y`h`VYfØW\_g]Wkh][ h"`8]Yg VYhf]ZZh`b]Wkh'bi f`6UmYfbž'gcbXYfb`Ui Wk`6Yf`]b`i bX`UbXYfY FY[ ]cbYb`8Yi hgWk`UbXgž']b`XYbYb`XYf`5i gVUi `YfbYi YfVUfYf 9bYf[ ]Yb'j cfUb[ Yhf]YVYb`k ]fX"

±b`XYf`Zc`[YbXYb`HUVY``Y`g]bX`Y]b][Y`fY`Yj UbhY`±bZcfa Uh]cbYb`ni 5bh]\_c``]g]cbggmghYa Yb`i bX`XYfYb`5bk YbXi b[gVYfY]W\ Ui Z[YZØ\fh.

p = DZcfa Uh]cb pFY Yj Ubn ZØf 6Yf ]b p
p

р

pBcj Y``Y`XYgʻ6i bXYgbUhi fgWXi hn[YgYhnYgʻp; YgYhn`]WXY
Jcf[UVYbʻZØfʻXYbʻ9]bgUhnʻj cbʻ5bh]\_c``]g]cbggmghYa Ybʻp
pʻ?cghYbʻi bXʻK ]f\_gUa \_Y]hʻj cbʻ5bh]\_c``]g]cbggmghYa Ybʻp
K ]fhgWXUZh`]WXYfʻi bXʻÒ\_c`c[]gWXYfʻBi hnYbʻZØfʻ6Yf`]bʻp
pʻN]Y`gYhni b[ 'XYgʻVUmYf]gWXYbʻ9bYf[]Ya ]b]ghYfgʻpʻ, VYfhfU[i b[
Ui ZʻX]Yʻ9bYf[]Yk YbXYʻ]bʻ6Yf`]bʻp

9g'V`Y]Vh'k ]W\h][ ž'XUgg'gck c\``Ui Z'Vi bXYg!'U`g'Ui W\`Ui Z'`c\_U`Yf 9VYbY'X]Y'9bhk ]W\_`i b[ 'i bX'5bk YbXi b[ 'j cb 5bh]\_c``]g]cbggmghYa Yb'ZØf'J Ò[ Y``k Y]hYf'j cfUb[ Yhf]YVYb'k YfXYbž i a 'Y]bY'bUW\\U`h][ Y'i bX'bUhi fj YfhfÀ[ `]W\Y'9bYf[ ]Yk YbXY'ni Yfa Ò[ `]W\Yb"

EiY``Y. '? ca dYhYbnnYbhfi a 'B Uhi fgW\i hn'i bX 9bYf[]Yk YbXY'ff? B 9\text{E'}[; a V < '#chg

8YhU]`g

6 Ygi W Yb 'G]Y 'i bg 'Ui Z 'a Y]b!VYf`]b "bYh