

## @]WX hYbVYf[ '\_Àa dZh'[ Y[ Yb 'X]Y'<]hnY. BYi Yf'<]hnYgWXi hn'ZØf'U``Y°

6Yf`]b'@]W\hYbVYf['Yf[fY]Zh'A U» bU\a Yb'[Y[Yb'<]hnYk Y``Yb &\$&) ž'i a 'X]Y'6Yj Ò`\_Yfi b['ni 'gW\ØhnYb'i bX\]hnYUb[YdUgghY'FÀi a Y'ni 'gW\UZZYb"



@]WW hYbVYf[ ž'8 Yi hgWW `UbX'!'8 Yf'Gca a Yf']b'6Yf`]b'k ]fX'Xi fWX XYb'?`]a Uk UbXY`ni bY\a YbX'\Y]» Yfž'k Ug'Ui WX'XYb'6Yn]f\_ @]WX hYbVYf[ 'ghUf\_'VYhf]ZZh"'+b'FYU\_h]cb'Ui Z'X]Y'ghY][ YbXYb HYa dYfUhi fYb'\Uh'XUg'6Yn]f\_gUa h'@]WX hYbVYf[ 'A U» bU\a Yb Yf[ f]ZZYbž'i a 'X]Y'\]Yg][ Y'6Yj Ò`\_Yfi b[ 'k À\fYbX'<]hnYdYf]cXYb'ni bhYfghØhnYb"'8]Yg'[ Y\h'Ui g'Y]bYf'A ]hhY]`i b[ 'XYg'6Yn]f\_gUa hg \Yfj cfž'X]Y'VYf]WX hYh"

9]b 'nYbhfU`Yf'6YghUbXhY]`'X]YgYf'A U» bU\a Yb']gh'X]Y

⇒XYbh]Z]n]Yfi b['j cb'h\Yfa ]gW\'VY`UghYhYb'; YV]YhYb']a '6Yn]f\_"
8]YgY'8 UhYb'k YfXYb']a 'I a k Y`h[ YfYW\h][ \_Y]hgUh`Ug'XYf
GYbUhgj Yfk U`hi b['Ui g[ Yk ]YgYbž'XYf'U``Y'XfY]'₺\\fY'U\_hi U`]g]Yfh
k ]fX"'Ni XYa '`]Y[ h'Y]b'; i hUW\hYb'ni f'5bU`mgY'\_`]a UfY`Yj UbhYf

: fY]fÀi a Y`]a '6Yn]f\_'j cfž'XUg'6YghUbXgXUhYb'XYf'VYn]f\_`]W\Yb ?`]a U`Y]hghY``Y`ni gUa a Yb $Z\emptyset$ \fh"

## A U» bU\a Yb ni f < ]hnYVYk À`h][ i b[

8 Ug; Ygi bX\Y]hgUa hij cb@JWkhYbVYf[ '\Uhini gÀhn`]WkY`GWkf]hhY i bhYfbca a Ybži a 'gWki hnVYXØfZh][ Y'6Yj Ò`\_Yfi b[ g[ fi ddYb'ni ]XYbh]Z]n]YfYb"' < ]YfVY] k YfXYb'df]cf]hÀfY'GhUbXcfhY'k ]Y DZY[ YY]bf]Wkhi b[ Yb'i bX'?fUb\_Yb\Ai gYf']b'XYb': c\_i g [ Ybca a Yb"'9]bY'6Yj Ò`\_Yfi b[ gi a ZfU[ Y'ni < ]hnYgWki hna U» bU\a Yb'k i fXY'Xi fWk'XYb'Y\fYbUa h`]WkYb 6Øf[ Yf.]bbYb\_`]a UVY]fUh']b]h]]Yfhži a 'X]Y'6YXUfZY'XYf 6Yj Ò`\_Yfi b[ 'VYggYf'ni 'j YfghY\Yb"

8]Y < ]hnYgWki hn\_ccfX]bUh]cb ]a ; Ygi bX\Y]hgUa h'UfVY]hYh'a ]h < ]hnYk Ufb\_YhhYbž'X]Y VYfY]hg'UV < ]hnYk Ufbghi ZY & U\_h]j ]Yfh k YfXYb" < ]hnYk Ufbi b[Yb XYg'8Yi hgWkYb K YhhYfX]YbghYg'k YfXYb YVYbZU``g'Ub DZY[Y! i bX GYb]cfYbY]bf]Wkhi b[Yb k Y]hYf[Y[YVYbž i a '[YZÅ\fXYhY DYfgcbYb[fi ddYb fYWkhnY]h]['ni ']bZcfa ]YfYb"

5V'<]hnYk Ufbghi ZY'&'k ]fX'XUg'Gcn]U`Ua h'ni XYa 'U\_h]j ž'i a j YfgWX]YXYbY'HfÀ[Yf'ØVYf'[YZÀ\fXYhY'; fi ddYb'k]Y'CVXUWX`cgYni ']bZcfa ]YfYb"'I bhYfghØhni b['Yf\U`hYb'X]Y'A U» bU\a Yb'Xi fWXY]bYb': ccXhfi W\_'XYg'8Yi hgWXYb'FchYb'?fYi nYg'gck]YY\fYbUa h`]WXY'?fÀZhY'XYg'N9I G!DfcY\_hYg"

## Hf]b\_k UggYfj Yfgcf[ib[ibX'=bZfUghfi\_hif

±0 'X]YgYa '\*J\f'\Uh'@]W\hYbVYf[ 'a Y\fYfY' ±0]h]Uh]j Yb'[ YghUfhYhž XUfi bhYf'XUg'8F?!<]hnYgW\i hnhY`YZcbž'XUg'gY]h'XYa '%"'\*j b]'&\$&) fi bX'i a 'X]Y'l\f'YffY]W\VUf']gh"'9]b'k Y]hYfYg'[ fc» Yg'Dfc 'Y\_h']gh X]Y'9ff]W\hi b['j cb'Hf]b\_k UggYfVfi bbYb"'8YfnY]h'[]Vh'Yg'&, 6fi bbYb']a '6Yn]f\_/'j]Yf'V]g'ZØbZ'k Y]hYfY'GhUbXcfhY'g]bX'VYfY]hg [Yd`Ubhž'i bX'ni gÀhn`]W\Y': ÒfXYfa]hhY`'ZØf'gYW\g'k Y]hYfY'6fi bbYb k i fXYb'U\_ei ]f]Yfh"'9]bY'¸ VYfg]W\h'ØVYf'X]Y'Hf]b\_k UggYfVfi bbYb\_Ubb'i bhYf'Vk V"XY'UV[Yfi ZYb'k YfXYb"

NigÀhn`]WXY': ÒfXYfa ]hhY`kifXYb'UiWX'ZØf'X]Y'9]bf]WXhib['Y]bYg

; Ya Y]bgW\UZhg[UfhYbg'Ui Z'ÒZZYbh`]W\Yb; fØbZÀW\Yb
Y]b[Yk cfVYb"'8]Y'GW\UZZi b['\]hnYUb[YdUgghYfž'[fØbYf
5i ZYbh\U`hgfÀi a Y']b'K c\bei Ufh]YfYb']gh'Y]b'UbXYfYf
GW\k Yfdi b\_h'XYf'VYn]f\_`]W\Yb'A U» bU\a Yb"'8Uni 'nÀ\`Yb
GcbbYbgY[Y`ž'DUj]``cbg'i bX'6Ui a []Y»U\_h]cbYbž'X]Y']b
Ni gUa a YbUfVY]h'a ]h'XYa ; fØbZÀW\YbUa h'i a [YqYhnh'k YfXYb"

## ?ccdYfUh]cbYb i bX BYhnk Yf\_Y

5i ZY]bYf'ØVYf[YcfXbYhYb'9VYbY'gYhnh'X]Y' $\Rightarrow$ ]h]Uh]j Y'?@; 'g]WX ZØf'Y]bY'J YfVYggYfi b['XYg'[Ygi bX\Y]hgVYnc[YbYb'<]hnYgWXi hnYg]b'8 Yi hgWX`UbX'Y]b"'?@|; 'VYf]WX hYhž'XUgg'6YfUhi b['ZØf 9]bf]WXhi b[Yb'XYg'; Ygi bX\Y]hg!'i bX'Gcn]U'k YgYbg'gck]Y; Ya Y]bXYb'Ub[YVchYb'k]fXž'i a 'X]Y'<]hnYgWXi hna U» bU\a Yb'ni cdh]a]YfYb'i bX'`c\_U`Y'<]hnYgWXi hnVØbXb]ggY'ni 'ZÒfXYfb"

8]Y = b]h]Uh]j Y i bhYfghØhnh:X]Y '9]bV]bXi b[ 'n]j ]`[ YgY``gW\UZh`]W\Yf 5\_hYi fY i bX bi hnh:Y]b [ fc » Yg BYhnk Yf\_j cb '9I dYfh.]bbYb 'Ui g j YfgW\]YXYbYb '6YfY]W\Ybži a 'J YfbYhni b[ 'ni 'ZÒfXYfb i bX XYb ZUW\`]W\Yb '5i ghUi gW\ 'ni ']bhYbg]j ]YfYb"'Gc 'k YfXYb GW\i`i b[ ga cXi `Y 'VYfY]h[ YghY``hž'X]Y 'g]W\ 'a ]h'XYb; Ygi bX\Y]hgZc`[ Yb 'j cb '< ]hnY i bX 'YZZY\_h]j Yb < ]hnYgW\i hna U » bU\a Yb 'Ui gY]bUbXYfgYhnYb"

#bg[ YgUa h']gh'XYf'I a [ Ub[ 'a ]h'XYb'< YfUi gZcfXYfi b[ Yb'XYg
?`]a Uk UbXY`g']b'6Yf`]b'i bX']bgVYgcbXYfY']a '6Yn]f\_'@]W\hYbVYf[
Y]b'j ]Y`gW\]W\h][ Yg'H\Ya U"'8Yf': c\_i g'Ui Z'dfÀj Ybh]j Y
A U» bU\a Yb'ni f'< ]hnYUbdUggi b[ 'nY][ hž'XUgg'X]Y'GhUXhj Yfk U`hi b[
VYghfYVh']ghž'X]Y'@YVYbgei U`]hÀh']b'Y]bYa 'g]W\'k UbXY`bXYb'?`]a U
ni '[ Yk À\f`Y]ghYb"</pre>

8 YhU]`g	
Cfh	@]WXhYbVYf[ž8YihgWX`UbX
EiY``Yb	• k k k "VYf`]b"XY
	• k k k "_`]a Uk UbXY`!
	[YgibX\Y]h"XY
	• k k k "_`]a U!a YbgW\!

8 Y hU]`g	
	[Ygi bX\Y]h"XY

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