

7\Ya b]hn'%%) . Fi bX!i a !X]Y!! \f 5i g_ØbZhY a]h'bYi Ya GdfUWX X]U`c[gmghYa °

5V'%-"'\$ b]'&\$&) k]fX'X]Y'6Y\ÒfXYbbi a a Yf'%%)]b 7\Ya b]hn'Ui Z'Y]b'GdfUWXX]U`c[gmghYa i a [YghY``hž'k Y`WXYg fi bX'i a 'X]Y'l\f'5i g_i bZh'V]YhYh"



; i hY 'B Yi][_Y]hY b 'ZØf'U``Y '7\Ya b]hnYf]bbYb'i bX '7\Ya b]hnYf° '5V 8cbbYfghU[ž'XYa '%- "'\$\delta\$b]ž'k]fX 'X]Y 'VY`]YVhY '6Y\ OfXYbbi a a Yf %%) 'Ui Z'Y]b'a cXYfbYg'GdfUW\ X]U`c[gmghYa 'fG8 GŁ'i a [YghY``h" K]Y '7\Ya b]hn"XY 'VYf]W\ hYhž'_ObbYb'6Øf[Yf.]bbYb'XUbb'fi bX'i a X]Y 'I \f'5i g_ØbZhY 'Yf\U`hYb' 'i bX 'XUg'gc[Ufž'k Ybb'X]Y GYfj]W\ W\ bhYf'[YgW\ `cggYb'g]bX"'9]b'YW\ hYf'GW\ f]hh'bUW\ 'j cfbY ZØf'X]Y'9ffY]W\ VUf_Y]h'j cb' \Delta Zcfa Uh]cbYb"

8 UgʻbYi YʻGmghYa ''Y]hYhʻ5bfi ZYbXYʻXi fW\ʻGdfUW\UbgU[Ybʻi bX Yfa Ò[`]W\h'X]Yʻ5i gk U\`'j cfXYZ]b]YfhYfʻ5bhk cfhcdh]cbYbʻdYf N]ZZYfbk U\`"Ni a '6Y]gd]Y`ž'k Yfʻ \Rightarrow Zcfa Uh]cbYbʻØVYfʻXYbʻJ Yf`i gh

Y]bYg'DYfgcbU`Ui gk Y]gYg'VYbÒh][hž'k]fX'Xi fWX'_`Uf'ghfi _hi f]YfhY A YbØg'[YZØ\fhž'i a 'X]Y'[Yk ØbgW\hYb'5i g_ØbZhY'ni 'VY_ca a Yb" K]W\h][']ghž'XUgg'Yg'g]W\i a '\Ài Z]['bUW\[YZfU[hY'H\Ya Yb\UbXY`hž'k]Y'X]Y'6YUbhfU[i b['j cb'DYfgcbU`Ui gk Y]gYbž: Ø\fi b[gnYi [b]ggYb'cXYf'; YVi fhgi f_i bXYbž'X]Y'ØVYf'X]YgYg GmghYa 'UV[YXYW_h'k YfXYb"

=a a Yf'ZØf'G]Y'XU

8]Y'I a ghY``i b['Ui Z'XUg'GdfUWXX]U`c[gmghYa '\Uh'_`UfY'JcfhY]`Y"
BYVYb'XYf'_ca d`YhhYb'&(#+!JYfZØ[VUf_Y]h'g]bX'Ui WX'X]Y
K UfhYnY]hYb'fYXi n]Yfhž'XU'5bfi ZYbXY'j]Y`Y' \div Zcfa Uh]cbYb'X]fY_h
i bX'i b_ca d`]n]Yfh'Yf\U`hYb"' \div XYf'D]`chd\UgY'\Uh'g]WX'Ui » YfXYa
[YnY][hž'XUgg'X]Y'Ei chY'XYf'Ub[Ybca a YbYb'5bfi ZY']a
GYfj]WYWYbhYf'UbghY][hž'k À\fYbX'g]WX'XUg'5bfi Zj c`i a Yb
fYXi n]Yfh"'8]Yg'VYXYi hYhž'XUgg'k Yb][Yf'A YbgWXYb'a Y\f
\div Zcfa Uh]cbYb'Yf\U`hYbž'c\bY'`Ub[Y']b'XYf'K UfhYgWX`Y]ZY'ni
\Ab[Yb"

9]b'[Ubn'k YgYbh`]W\Yf'Di b_h'8]Y'Bi hni b['XYf'6Y\ÒfXYbbi a a Yf %%)']gh']a 'Df]bn]d'_cghYb`cg"'@YX][`]W\'X]Y'fY[i `ÀfYb HY`YZcb_cghYb'XYg'5bV]YhYfg'ZU``Yb'Ub"'5bfi ZY'j cb'XYi hgW\Yb 'YghbYhnUbgW\`ØggYb'g]bX']a 'CfhghUf]Z']b'XYf'FY[Y`'Ybh\U`hYbž i bX'Ui W\'j]Y`Y'A cV]`Zi b_ZUhfUhYg'V]YhYb'X]Y'Bi a a Yf'Ub"'8U `c\bh'Yg'g]W\ž'Y]b'[i hYg'<ÀbXW\Yb'VY]'XYf'K U\``XYg'5bV]YhYfg'ni \UVYbž'XYbb'Ubfi ZYb'_Ubb''YXYfž'XYf'Y]bY': fU[Y'ni 'XYb\\Ài Z][ghYb'JYfk U`hi b[gUb[Y`Y[Yb\Y]hYb'\Uh"

9]b; Ya Y]bgW\UZhgdfc^Y_h

8]Y'%%) ']gh'b]W h'bi f'Y]bY'`c_U`Y'GUW Y']b'7\Ya b]hn"'G]Y']gh'HY]`
Y]bYg'[fc» Yb'BYhnk Yf_gž'XUg'ØVYf'&* 'A]``]cbYb'6Øf[Yf]bbYb'i bX
6Øf[Yf']b'a Y\f'U`g')) \$'?ca a i bYb'i a ZUggh"'@Ui h'J Yfk U`hi b[
+bcj Uh]j 'k]fX'X]Y'K]ggYbgXUhYbVUb_'j cb'HY]`bY\a Yfb'U``Yf
JYfk U`hi b[gYVYbYb'[YZØ``h'i bX'_cbh]bi]Yf`]WX'k Y]hYfYbhk]W_Y`h"
Gc'_Ubb'X]Y'%%) ']\fY'8]YbghY'Ui WX']b'Ni _i bZh'UbdUggYb'i bX
j YfVYggYfb"

: Øf'U``'YbYž'X]Y'_ca d`]n]YfhY': fU[Yb'\UVYb'cXYf'gdYn]Y``Y 5b`]Y[Ybž'ghY\h'k À\fYbX'XYf'fY[i `ÀfYb'GYfj]WYnY]hYb'k Y]hYf\]b X]Y'A Ò[`]W_Y]h'ni f'JYfZØ[i b[ž'X]fY_h'a]h'Y]bYa 'A]hUfVY]hYbXYb XYg'GYfj]WYWYbhYfg'ni 'gdfYW\Yb"'8]Y'5bfi ZYf'k YfXYb']b'X]YgYa : U``'YbhgdfYW\YbX'i a[Y`Y]hYh' 'U``Ygž'i a 'g]W\Yfni ghY``Ybž'XUgg b]Ya UbX'a]h'gY]bYb'5b`]Y[Yb'U``Y]b'[Y`UggYb'k]fX"

8 i fW. X]Y I a ghY``i b['Ui Z'XUg'GdfUW.X]U`c[gmghYa 'k]fX'X]Y 6Y\ÒfXYbbi a a Yf'%%) 'ni f'ni j Yf`Àgg][Yb' \(\delta \)Zcfa Uh]cbgei Y``Y'\ZØf U``Yž'X]Y'Yhk Ug'k]ggYb'a ÒW.hYb"'8 Ug'N]Y``]gh'_`Uf. '9]bY ZÀW.YbXYW_YbXY'9ffY]W.VUf_Y]h'ZØf'U``Y'6Øf[Yf]bbYb'i bX'6Øf[Yf°

: $\emptyset f'k Y]hYfY' + Zcfa Uh]cbYb' - ObbYb'G]Y'Ui Wk'X]Y'cZZ]n]Y``Y K YVgY]hY'XYf'%%) 'VYgi WkYb.'%%) "XYž'i a 'g]Wk'<math>\emptyset$ VYf'; YV \emptyset \fYb i bX'9ffY]WkVUf_Y]h'ni ']bZcfa]YfYb"

8 YhU]`g	
EiY``Yb	• k k k "WX Ya b]hn"X Y
	• k k k "%%) "X Y
	k k k "j Yfk U`hi b[!]bbcj Uh]j "XY

6Ygi WXYb G]Y i bg Ui Z. bU[!gUWXgYb "XY