

## 9bhXYW\_Yb'G]Y'; cj YYg']bbcj Uh]j Y'@98! 6Y`Yi WX hi b['ZØf'Y]b'ZYgh`]WXYg'Ni \Ui gY

9bhXYW\_Yb'G]Y'X]Y'bYi YghYb'ga UfhYb
6Y`Yi W\hi b[g`Ògi b[Yb'j cb'; cj YYžj cf[YghY``h'Ui Z'XYf' = 5
&\$&("'Jcb'XYb']bbcj Uh]j Yb'; cj YY'Ghf]d'@][\h'&'Dfc'V]g'\]b
ni 'XYb'Y]bn][Ufh][Yb'; cj YY'7C6'Ghf]d'@][\h'Dfc'
j YfVYggYfb'G]Y' =\f\Ni\Ui gY'a ]h'`YVYbX][Yb': UfVYb'i bX
ZYI]V`Yf'GhYi Yfi b['dYf'5dd'cXYf'GdfUW\VYZY\`"'=XYU``ZØf
ZYgh`]W\Y'5b`AggY'i bX'XYb'5``hU["'9fZU\fYb'G]Y'a Y\f'ØVYf
DfcXi hYžX]Y'=\f\5a V]YbhY']bX]j ]Xi Y``'[YqhU`hYb°



8]Y'Ni\_i bZh'XYf']bhY``][YbhYb'6Y`Yi WX hi b[.; cj YY'nY][h'Ui Z'XYf'= 5'&\$&(']bbcj Uh]j Y DfcXi\_hY

 $8 ]Y' = 5 \% \% (']b'6Yf']b'k ]fX'nia 'GWM Uid'Uhn'ZØf'X]Y'bYiYghYb \\ 9bhk ]W_ib[Yb']b'XYf'K Y`h'XYf'Ga Ufh! < ca Y!HYWM bc`c[]Yb'''9]b \\ VYgcbXYfYg'5i[Yba Yf_'f]WM hYh'g]WM'Ui Z'; cj YYž'Y]b$ 

I bhYfbY\a YbžXUgʻZØfʻgY]bYʻ\_fYUh]j Ybʻ@Ògi b[Ybʻ]a '6YfY]W\`XYf]bhY``][YbhYbʻ6Y`Yi W\hi b['VY\_Ubbh']gh"`A]h'Y]bYfʻJ]Y`nU\``bYi YfDfcXi\_hYʻn]Y`hʻ; cj YYʻXUfUi ZʻUVžʻXUgʻK c\bi a ZY`XʻXYfJYfVfUi W\Yfʻni 'j YfVYggYfbʻi bX`[`Y]W\nY]h]['XYbʻNi [Ub['ni qa UfhYfʻHYW\bc`c[]Y`ni 'Yf`Y]W\hYfb"

GdYn]Y``Y'@Ògi b[Yb'ZØf'XYb'K Y]\bUW\hgnUi VYf'i bX'XYb'5``hU[

 $6 YgcbXYfg`]bhYfYggUbh'g]bX`X]Y`bYiYb`]bhY``][YbhYb 6 Y`YiWh hib[g`Ògib[Yb'jcb'; cjYYž'X]Y`b]Wh'bif'ZØf'ZYgh`]WhY 5 b`ÀggYž'k]Y`KY]\bUWhYbž'gcbXYfb`UiWh'ZØf'U``hÀ[`]WhY Gh]aaib[Yb'Ybhk]W_Y`h'kifXYb"`DfcXi_hY`k]Y`XYf'GhUf'@][\hDfcYWhcf'fbifcfUt'ibX`X]Y`<c`]XUm'@][\hg'7c``YWh]cb'V]YhYbj]Y`ZÀ`h][Y`AÒ[`]Wh_Y]hYbžia`XUg'Ni\UigY`]bX]j]XiY``ni[YghU`hYb'ibX`ZYgh`]WhY5 hacgd\ÀfY`nigWhUZZYb''`8 Ug'7ifhU]b@][\h'&'fibXYh'XUg'5b[YVch'UV'ibX'YfaÒ[`]WhYg'BihnYfbž_fYUh]jY`@]WhhU_nYbhY`]b`Kc\bfÀiaYb'nigYhnYb''$ 

## HYW bc`c[]gW Y =bbcj Uh]cbYb i bX 6Ybi hnYfZfYi bX`]W \_Y]h

8]Y'bYi Yb'DfcXi \_hY'j cb'; cj YY'g]bX'b]W\h'bi f'cdh]gW\UbgdfYW\YbXžgcbXYfb'Ui W\hYW\bc`c[]gW\'Ui Z'XYa 'bYi YghYb GhUbX"'6YgcbXYfg'\Yfj cfni \YVYb']gh'XUg'; cj YY'Ghf]d'@][\h'&'DfcžUi g[YghUhhYh'a]h'XYa ']bbcj Uh]j Yb'@ a]b6`YbX '7c`cf'7cbhfc` GmghYa 'i bX'XYa 'gY`Vgh'Ybhk]W\_Y`hYb'; %%) %!7\]d"'8]YgY HYW\bc`c[]Yb'j YfVYggYfb'X]Y': UfVk]YXYf[UVY'i bX'Yfa Ò[`]W\Yb Y]bY'5bdUggi b[']b'V]g'ni 'nY\b'5VgW\b]hhYb'dfc'A YhYf"'8]Y'Bi hnYf\UVYb'gca]h'X]Y': fY]\Y]hž'ØVYf'%\$\$'j cfY]b[YghY``hY'GnYbYb'cXYf Aig]\_a cX]'ni 'k À\`Ybž'i a 'X]Y'dYfZY\_hY'5ha cgd\ÀfY'ni 'gW\UZYb"

## ?fYUh]j ]hÀh'i bX'=bX]j ]Xi U`]hÀh']a 'a cXYfbYb Ni \Ui gY

9]b'k Y]hYfYf'GW\k Yfdi b\_h'XYf'; cj YY!DfcXi \_hY']gh'X]Y'A Ò[`]W\\_Y]h ni f'dYfgÒb`]W\Yb'; YghU`hi b["'A]h'8 #M: i b\_h]cbYb'\_ÒbbYb
J YfVfUi W\Yf']\fY'l a [YVi b['bUW\']\fYb'J cfghY``i b[Yb'j YfÀbXYfb

i bX`UbdUggYb"'8]Y`DfcXi \_hY`g]bX`gc`\_cbn]d]Yfhž`XUgg`g]Y`bU\h`cg
]b`VYghY\YbXY`Ga Ufh! < ca Y!GmghYa Y`]bhY[f]Yfh`k YfXYb`\_ObbYbž
k Ug`Xi fW\`X]Y`?ca dUh]V]`]hÀh`a ]h`A UhhYfž`5a Uncb`5`YI U`i bX
; cc[`Y`5gg]ghUbh`Yf`Y]W\hYfh`k]fX"'8]Yg`Yfa O[`]W\h'Y]bY`Y]bZUW\Y
GhYi Yfi b[`i bX`5bdUggi b[`XYf`6Y`Yi W\hi b[`dYf`Ga Ufhd\cbY
cXYf`GdfUW\VYZY\`"

## A $Uf_hY]bZ\emptyset \setminus fib[ ibXJYfZ\emptyset[ VUf_Y]h$

# g'WYUf'h\Uh'; cj YY']g'bch'' gh'UVci h'`][\h]b[/']h g'UVci h'WfYUh]b[Ya ch]cbU`'WcbbYWh]cbg'h\fci [\'`][\h":8]Y']bhY``][YbhYb6Y'Yi W\hi b[g`Ògi b[Yb'g]bX'a Y\f'U`g'bi f'DfcXi \_hY' 'g]Y'g]bX K Yf\_nYi [Yž'X]Y'Yg'XYb'A YbgW\Yb'Yfa Ò[`]W\Ybž'Y]bUb[YbY\a YfYg'i bX'UbgdfYW\YbXYfYg'Ni\Ui gY'ni '[YghU`hYb"

: Øfa Y\f' ⇒ Zcfa Uh]cbYb'i bX'X]Y'bYi YghYb'l dXUhYg'ØVYf'; cj YYž VYgi WXYb'G]Y'V]hhY'X]Y'cZZ]n]Y``Y'K YVgY]hY'i bhYf'[cj YY"Wca "

8 Y hU]`g

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