

6Yhfi [gk Ufbi b[...6]Y`YZY`XYf`Yf\U`hYb ZU`gWXY`GhUUhgUbk U`h!5bfi ZY

±b·6]Y`YZY`X`\Ài ZYb·g]WX·GWXcW_Ubfi ZYž·VY]`XYbYb·6YhfØ[YfU`g`GhUUhgUbkÀ`hY`cXYf`Dc`]n]ghYb`Ui ZhfYhYb`i bX; Y`X
ZcfXYfb"

K $Ug.ghYW_h.$]bhYf.XYb.5bfi ZYb3

 $8]Y `6Y hf \varnothing [Yf' [YVYb'g] W `Ua `HY`YZcb'U`g' GhUUhgUbk U`h'Ui g'i bX Yfn A `Yb'j cb'Y] bYa `gWk YfYb'J cfZU``ž'VY] `XYa `XUg'?] bX'XYg \\ 5b [Yfi ZYbYb']b'Y]bYb'I bZU``'j Yfk]W_Y`h'gY] "'C Zh'k]fX'VY\Ui dhYhž XUgg'Y]bY'F UXZU\fYf]b'gWk KYf'j Yf`Yhnh'k i fXY'i bX'Y]bY'? Ui h]cb']b < O\Y'Y]bYg'\c\Yb'; Y`XVYhfU[g'ni 'nU\`Yb'gY] "'Gc`WXY'5i ggU[Yb Z\O\fYb'cZh'ni 'JYfk]ffi b['i bX'5b[gh'VY]'XYb'5b[Yfi ZYbYbž'gcXUgg g]Y'`Y]Wkh']b'X]Y': U``Y'hUddYb'_ObbYb''$

6YhfØ[Yf'gYhnYb'Ui Z'Ya ch]cbU`Y A Ub]di `Uh]cb

9]b'k Y]hYfYg'A Yf_a U``XYf'VYhfØ[Yf]gWXYb'5bfi ZY']gh'X]Y
Ya ch]cbU`Y'A Ub]di `Uh]cb"'BUWXXYa `XYf'YfghY'5bfi ZYf'gY]bY
; YgWX]WXhY'XUf[Y`Y[h'\Uhž'a Y`XYb'g]WX'\Ài Z]['k Y]hYfY'DYfgcbYb
Ua `HY`YZcbž'X]Y'j cf[YVYbž'XUg'VYhfcZZYbY'?]bX'ni 'gY]b"'A]h
k Y]bYbXYf'Gh]a a Y'j Yfgi WXYb'g]Yž'gWXbY``XUg'JYfhfUi Yb']\fYf

9`hYfb`ni '[Yk]bbYb`i bX`X]YgY`ni f'<YfUi g[UVY`j cb`GW\a i W_`cXYf ;Y`X`ni 'VYkY[Yb"

8 | Y · F c ` ` Y · X Y f · D c `] n Y]

 $8]Y'6]Y'YZY'XYf'Dc']nY] z'j YfhfYhYb'Xi fWX'Dc']nY]gdfYWXYf]b'< Y'`U 7 \f]ghcd \z'Yfa i h][h'X]Y'6Øf[Yfz'g_Ydh]gWX'ni 'gY]b'i bX'_Y]bY dYfgÒb']WXYb'cXYf'Z]bUbn]Y``Yb' \dagbed Zcfa Uh]cbYb'dfY]gni [YVYb'' 9g]gh'j cb'Ài » YfghYf'K]WXh][_Y]hz'XUgg'b]Ya UbX'Ui Z'X]Y': cfXYfi b[Yb XYf'6YhfØ[Yf'Y]b[Y\h z'Yf_`Àfh'7\f]ghcd\"'8]Y'<]bk Y]gY'XYf'Dc`]nY] g]bX'_`Uf.'G]WXhVUfY'G_Ydg]g'_Ubb'cZh'XUni 'ZØ\fYbz'XUgg'6YhfØ[Yf j cb']\fYa 'J cf\UVYb'UVgY\Yb''$

9]bYnkY]hY6Yhfi[ga UgWXY

 $BYVYb`XYb`GW\&cW_Ubfi ZYb`[]Vh`Yg`Ui W\&`UbXYfY`6Yhfi [gj Yfgi W&Yž VY]`XYbYb`g]W\&`5bfi ZYf`U`g`Dc`]n]ghYb`Ui g[YVYb"'\dot X]YgYb`: À``Yb k]fX`XYb`5b[Yfi ZYbYb`a]h[YhY]`hž`XUgg`Y]bY`GYf]Y`j cb <math display="block">FUi V\varnothing VYfZh``Yb`]b`XYf`BUW\&VUfgW\&UZh`ghUhh[YZ]bXYb``\&Uh''`5i W\&\&Yf'j Yfgi W&Yb`X]Y`6Yhf\varnothing[Yfž`JYfhfUi Yb`Ui Zni VUi Ybž`]bXYa `g]Y]\fY`CdZYf`XUf\ØVYf`]bZcfa]YfYbž`XUgg`g]Y`\Y`ZYb`_\ObbYbž`X]Y 9]bVfYW&Yf`ZYghni bY\a Yb"`5a `9bXY`gc`W&Yf`; YgdfAW&Y`ZcfXYfb g]Y`cZh`Y]bY`5V\YVi b['j cb`6Uf[Y`Xž'k Y`W&Yg`XUbb`Ub`Y]bYb Ub[YV`]W&Yb`Dc`]n]ghYb`\ØVYf[YVYb`k YfXYb`gc``"$

JcfVYi [YbXY'A U» bU\a Yb'i bX GYbg]V]`]g]Yfi b[

I a 'gc`W.Y'6Yhfi [gj Yfgi W.Y'ni 'j Yf\]bXYfbž']gh'Yg'YbhgW.Y]XYbXž XUgg'X]Y'6Øf[Yf'[i h']bZcfa]Yfh'g]bX"'5i Z_`Àfi b[g_Ua dU[bYb'XYf Dc`]nY]'_ÒbbhYb'\Y`ZYbž'XUg'6Yk i gghgY]b'ZØf'X]YgY'5fhYb'j cb 6Yhfi ['ni 'gW.ÀfZYb'i bX'X]Y'A YbgW.Yb'j cf'XYb'Ya ch]cbU`Yb Hf]W_g'XYf'6YhfØ[Yf'ni 'gW.ØhnYb"'GYbg]V]`]g]Yfi b[']gh'XYf GW.`ØggY`ž'i a 'g]W.'gY`Vgh'i bX'UbXYfY'ni 'gW.ØhnYb"

8] Y `G] hi Uh] c b `] b `6] Y `Y ZY `X `n Y] [hž `k] Y `k] W\ h] [`Y g `] ghž `k UW\ gUa `ni gY] b `i b X `b] W\ h `V `] b X `Ui Z `X] Y `5 i ggU [Y b `j c b `5 b fi ZY f b `ni `j Y f h f Ui Y b "

9]b'[Ygi bXYg'A]gghfUi Yb']b'gc`W\Yb': À``Yb'_Ubb'\Y`ZYbž'X]Y 6Øf[Yf'j cf'Z]bUbn]Y``Yb'JYf`i ghYb'i bX'Ya ch]cbU`Yb'GW\ÀXYb'ni VYk U\fYb"

B5;

8 Y hU]`c

6Ygi WXYb G]Y i bg Ui Z b!U["XY