

9`hYfb`]a` : c_i g.`Ga Ufhd\cbY!5V`Yb_i b[
]a`K]YgVUXYbYf`GWk]a a VUX

⇒ a Yf`a Y\`f`9`hYfb`]b`<YggYb`g]bX`]a` : fY]VUX`j ca`<UbXm
UV[Y`Yb_hž`k Ug`X]Y`G]WYf\Y]h`\fYf`?]bXYf`[YZ\`fXYh"

8]Y`ni bY\`a YbXY`5V`Yb_i b[]cb`9`hYfb`Xi fW`Ga Ufhd\cbYg
k Å\`fYbX`XYg`5i ZYb\`U`hg`]a`GWk]a a VUX`k]fZh: fU[Yb`ni f
G]WYf\Y]h]cb`?]bXYfb`Ui Z`Jcf`U`Ya`]b`XYb` : fY]VÅXYfb`j cb
K]YgVUXYb`i bX`UbXYfYb`\Ygg]gWYb`GhÅXhYb`nY][h]g]W`Y]b
VYgcf[b]gYffY[YbXYf`HfYbXž`XYf`b]W`h`bi f`X]Y`6UXYUi Zg]W`hž
gcbXYfb`Ui W`X]Y` : Ua`]]Yb`gY`Vgh`VYhf]Zh"

8]Y`J YfUbhk c fhi b[`XYf`9`hYfb`]a` : fY]VUX

9`hYfb`g]bX`]b`XYf`DZ]W`hž`\fY`?]bXYf`]a`GWk]a a VUX`]a`5i [Y`ni
VY\`U`hYb`"8]Yg`]gh`VYgcbXYfg`k]W`h][ž`k Ybb`X]Y`?]bXYf`g]W`]a
K UggYf`Ui Z\`U`hYb`"⇒`K]YgVUXYb`g]bX`XYb`J YfUbhk c fh]W`Yb`XYg
6ÅXYfVYhf]YVg`a Uhh]Uei U`j YfY]bnY`h: Å`Y`j cb`9`hYfb`VY`Ub`hž`X]Y
ni`gY\`f`a]h`\fYb`Ga Ufhd\cbYg`VYgW`ÅZh][h]g]bXž`UbghUhh`Ui Z`\fY
?]bXYf`ni`UW`hYb`"@Ui`h`Y]bYf`GdfYW`Yf]b`XYf`6ÅXYfVYhf]YVY
k YfXYb`X]YgY`JcfZ`Å`Y`YXcW`b]W`h`U`g`XfUa`Uh]gW
k U\`f[Ybca`a Ybž`i bX`Yg`[YVY`V]g\`Yf`_Y]bY`U`Ufa`]YfYbXYb
GhUh]gh]_Yb`ØVYf`Y]bYb`5bgh]Y[`gc`W`Yf` : Å`Y"

8 Yf`9]bZ`i gg`YI hYfbYf`9b hk]W`_`i b[Yb

⇒< Ua Vi f[`]gh`X]Y`G]hi Uh]cb`Yhk Ug`XfUa`Uh]gW`Yf`"8cfh`k i fXY
ZYgh[YghY`hž`XUgg`F`Y`hhi b[ggW`k]a a Yf`Xi fW`gW`b]h]W`nY\`ba`U`
dfc`K`cW`Y`Y]b[fY]ZYb`a`ØggYbž`k`Y]`?]bXYf`i`bVYa`Yf`_h]bg`h]YZYfY
K UggYf`[YfUhYb`"<]Yf`_ca`a`h`Yg`XUXi fW`ni`df`Åj`Ybh]Y`Yb
F`Y`hhi b[gU`_h]cbYbž`X]Y`cZh`Xi fW`X]Y`5V`Yb_i b[`XYf`9`hYfb`Xi fW`

]\fY' < UbXmg' j Yfi fgUW h'k YfXYb" 'l a 'Ui Z'X]YgY 'DfcV`Ya Uh]_
 Ui Za Yf_gUa 'ni 'a UWYbž'j YfhY]'Yb'X]Y' < Ua Vi f[Yf': fY]VÀXYf
 ðZcfa Uh]cbgZmYf'i bX'Yfk À\bYbž'XUgg'9`hYfb'VY]'k]YXYf\c`hYa
 : Y\`j Yf\U`hYb'XYg'GWk]a a j Yf[bØ[Ybg'j Yfk]YgYb'k YfXYb
 _ÖbbYb"

5i Z_`Àfi b['i bX'DfÀj Ybh]cb']b'K]YgVUXYb

8]Y'K]YgVUXYbYf'6ÀXYfVYhfY]VYf'gYhnYb'Ui Z'5i Z_`Àfi b[" ðfY
 K UggYfUi Zg]W h'gd f]W h'X]fY_h'a]h'9`hYfbž'X]Y']\fY'5i Zg]W hgdZ]W h
 j YfbUW`Àgg][Yb" ð'XYb'a Y]ghYb': À`Yb'nY][h'X]Yg'K]f_i b[žgc
 X]Y'GdfYWYf]b'j cb'a Uh]Uei U" 'A ca YbhUb'g]bX'_Y]bY'XfUgh]gWYb
 A U» bU\`a Yb'k]Y']b' < Ua Vi f[' [Yd'Ubh'X]Y': Ø\fi b[g_`fÀZhY
 VYhcbYb'X]Y'6YXYi hi b['j cb'; Ygd fÀWYb'i bX'XYa 'X]fY_hYb
 9b[U[Ya Ybh'a]h'XYb'9`hYfb"

5`[Ya Y]bY'G]W Yf\Y]hgf]g]_Yb']a GWk]a a Yb

6YgcbXYfg'VYgcf[b]gYffY[YbX']gh'Ui W'XUg'D\`Àbca Ybž'XUgg
]a a Yf'a Y\`f'9`hYfb']\fY'B]W hgWk]a a Yf!?']bXYf'U`Y]b']bg
 K UggYf'gW]W_Yb" ð' 'K U`XgWk]a a VUX'B]YXYfb\Ui gYb'k i fXY
 X]YgY'DfU]]g'nk Uf'bcW' b]W h'a]h'Y]bYa 'Ga Ufhd\cbY']b
 J YfV]bXi b[' [YVfUW hž'YXcW' k ÀW gh'X]Y'Gcf[Yž'XUgg'X]Yg'cZh
 c\`bY'XUg'bØh][Y'6Yk i ggghY]b'ZØf'X]Y'; YZU\`fYb'[YgW]Y\`h"

GW`i ggZc`[Yfi b[. ; Ya Y]bgW UZh`]W Y J YfUbhk cfhi b[

8]Y'G]hi Uh]cb']b'XYb': fY]VÀXYfb']b' < YggYb'YfZcfXYfh'Y]b
 [Ya Y]bgUa Yg'j YfUbhk cfhi b[gj c`Yg' < UbXY'b'XYf'9`hYfb"
 K À\`fYbX'X]Y'5i Zg]W hgdZ]W h'cZh'Yfbgh'[Ybca a Yb'k]fXž'[]Vh'Yg
]a a Yf'bcW' GhØfi b[Yb'Xi fW'hYW bc`c[]gWY'5V`Yb_i b[Yb"
 8UfØVYf'\]bUi g'gc`hY'X]Y'; YgY`gW UZh'U'g'; UbnYg'Y]b
 6Yk i ggghY]b'ZØf'X]Y'G]W Yf\Y]h'XYf'?]bXYf']a 'GWk]a a VYfY]W
 Ybhk]W_Yb" 8Ug'N]Y`V'Y]Vhž'XUgg'YXYf'GWk]a a VUXVYgi W'ZØf
 : Ua]']Yb'b]W h'bi f'YbhgdUbbYbXž'gcbXYfb'Ui W'UVgc`i h'g]W Yf']gh"

8YhU]g

6Ygi W\Yb`G]Y`i bg`Ui Z.`b!U["XY