

DZUffUfWÅ ]j Y. '9]b 'GWÅ Uhn 'XYf 'fY [ ]c bU`Yb  
; YgWÅ ]WÅ hY 'k ]fX 'X][ ]hU` 'YfgWÅ `c ggYb

9bhXYW\_Yb 'G]Y 'X]Y 'GWÅ ÅhnY 'XYf 'DZUffUfWÅ ]j Y. 'J ]g]c b 'XYg  
9fnV]ghi a g'A ØbWÅ Yb 'i bX ': fY]g]b[ 'ni f'6Yk U\fi b [  
VUmYf]gWÅ Yf 'C fhg[ YgWÅ ]WÅ hY "

⇒ a '9fnV]ghi a 'A ØbWÅ Yb 'i bX ': fY]g]b[ 'k ]fX 'Y]b 'VYXYi hYbXYg  
Dfc\_Y\_h'ni f'6Yk U\fi b[ 'j c b '\ ]ghc f]gWÅ Yb '8c\_i a YbhYb  
j c fUb[ Yhf]YVYb " 'DZUffUfWÅ ]j Yžk Y 'WÅ Y 'U\ f\i bXYfhY U'hY 'GWÅ ÅhnY  
XYf 'C fhg[ YgWÅ ]WÅ hY 'Ybh\ U'hYbžk YfXYb 'bi b 'gmghYa Uh]gWÅ  
ni gUa a Yb[ YZØ\fh'i bX 'XYf'^2 ZYbh]WÅ \_Y]h'gck ]Y 'XYf': cfgWÅ i b [  
ni [ Åb[ ' ]WÅ ' [ Ya UWÅ h"K Å\ fYbX 'VYfY]hg &) \$ 'DZUffUfWÅ ]j Y ']b 'Y]bYa  
nYbhU'Yb '8Ydchj Yfk U\fh'k YfXYbž'ghY\Yb 'bcWÅ ') \$ \$ 'k Y]hYfY ']b  
XYf 'K UfhYgWÅ 'Ub[ Y " '8]Yg 'ghY`hY]bYb ' [ fc» Yb 'GWÅ f]h'XUfž'i a 'X]Y  
\_i 'hi fY`Yb'; ØhYf 'XYf 'F Y [ ]c b 'ZØf'ni \_ØbZh][ Y ; YbYfUh]c bYb 'ni  
g]WÅ Yfb "

8]Y 'DZUffUfWÅ ]j Y 'nY]WÅ bYb 'g]WÅ 'b]WÅ h'bi f'Xi fWÅ ' ]\fY 'fY '[ ]ØgYb  
⇒ \U'hY 'Ui g" 'G]Y 'V]YhYb 'j ]Y 'a Y\ f'Y]bYb 'Ui ZgWÅ 'i ggfY]WÅ Yb '6`W\_ ]b  
X]Y 'c\_U'Y ; YgWÅ ]WÅ hY " '9]b '6Y]gd]Y 'ZØf'Y]bYb 'gc `WÅ Yb 'GWÅ Uhn  
Z]bXYh'g]WÅ 'ja 'DZUffUfWÅ ]j ' : Øf\c 'nYbžk c 'Y]b 'gc [ YbUbbhYg  
GU`Vi WÅ 'Ui g'XYa '%, " ⇒ \f\i bXYfh'Ui ZYk U\fh'k ]fX " '8]YgYg  
8c\_i a Ybhž'XUg'j ca 'DZUffYf'æ \Ubb'⇒ \_cV `DÅa Yf'j YfZUggh'k i fXYž  
Ybh\Å 'h'XYhU]` ]YfhY '5i ZnY]WÅ bi b[ Yb 'ØVYf'X]Y '?'fWÅ Y 'gck ]Y  
⇒ Zcfa Uh]c bYb 'ni 'XYb 'UbXk ]fhgWÅ UZh]WÅ Yb 'HÅh][ \_Y]hYb 'XYf  
; Ya Y]bXY " < ]YfVY][ Y\h'Yg'bVYb 'fY '[ ]ØgYb '5gdY\_hYb 'Ui WÅ 'i a  
U`hÅ [ ' ]WÅ Y '6Y`Ub[ Yžk ]Y 'X]Y '6YXØfZb]ggY 'Y]bYg ; ÅfhbYfg'ZØf'XYb  
C VghUbVUi "

< ]ghc f]gWÅ Y '6YXYi hi b [ 'XYf 'DZUffUfWÅ ]j Y

8]Y`\[ghcf]gWXYb`DZUffUfW\j Y`ghY`Yb`Y]bY`k Yfhj c`Y`E i Y`Y`ZØf  
<]ghcf]\_Yfž: cfgWXYf`i bX`]bhYfYgg]YfhY`6Øf[ Yf`XUf`"8 Ug`GU`Vi W\  
j cb: Øf\c`nYb`[ ]`h`U`g`Y]bn][ Ufh][ Yg`8c`\_i a Ybhž`XU`Yg`j cb`Y]bYa  
XYf`k Yb][ Yb`A YbgWXYb`j YfZUgg`h`k i fXYž`X]Y`ni`Y`bYf`NY]h`YgYb  
i bX`gWXYfY]VYb`\_cbbhYb`"K ]Y`Fc`UbX`; Øh`j ca`5fW\j ]`XYg  
9fnV]ghi a g`A ØbWXYb`Yf`\_`Àfhž`UVYb`DZUffYf`cZhi`U`g`7\`fcb]ghYb  
]\`fYf`; Ya Y]bXYb`Z`b [ ]Yfhi bX`g]bX`XUa ]h`ni`k ]W\h][ Yb`<ØhYfb  
XYf`; YgW\W\hY`[ Yk cfXYb`"

I a`Y]bY`a Ø[ `]W\gh`U`hVUfY`i bX`g]WXYfY`5i ZVYk U\fi b[ `X]YgYf  
8c`\_i a YbhY`ni`[ Yk`À`f`Y]ghYbž`k i fXY`Y]b`dfcZYgg]cbY`Yg`5fW\j ]!  
i bX`6]V`]ch\Y`\_gXYdch`Y]b[ Yf]W\hYh`"6YfY]hg`Y`hnh`g]bX`Yhk U`&) \$  
5fW\j ]Y`b`X]YgYa`8Ydch`g]WXYf`j YfghUi h`"8]Y`8c`\_i a YbhY`k YfXYb  
\_UhU`c[ ]g]Yfhi bX`k UfhYb`XUfUi Z`j cb`hYfYgg]YfhYb`Y]b[ YgY\Yb  
ni`k YfXYb`"8]Y`5fW\j ]Y`fY]WXYb`XUVY]`V]g`]bg`A ]hY`U`hYf`ni fØW`ž  
k cVY]`XUg`À`hYghY`8c`\_i a Ybh`Ui g`XYa``%&"`š\`f`i bXYfh`ghUa`a`h`  
8]Yg`XYi hYh`Ui ZY]bY`Ub[ Y`HfUX]h]cb`XYf`8c`\_i a YbhUh]cb`i bX  
5i ZVYk U\fi b[ `j cb:; Ya Y]bXYUb[ Y`Y[ Yb`Y]hYb`]\`b`"

## 9f`Y]W\hYfi b[ `ZØf`X]Y`; Ya Y]bXYb

8]Y`J Yf`U[ Yfi b[ `XYf`k Yfhj c`Y`b`i bhYf`U[ Yb`]b`Y]b`dfcZYgg]cbY`Yg  
8Ydch`VY[ fØ» h`Ui W\`DZUffYf`5bXfYUg`K c`Vc`X`Ui g: Øf\c`nYb`"9f  
g]Y\`h`Yg`U`g`[ fc» Y`9f`Y]W\hYfi b[ `Ubž`XUgg`X]Y`5fW\j ]Y`bi`b`]b  
ZUW\`\_i bX][ Y`<`ÀbXY`[ Y[ YVYb`k YfXYb`" K ]f`\_ØbbYb`XUg`j cf`C`fh  
b]W\h[ Yk`À`f`Y]ghYb`ž`Yf`\_`Àfh`K c`Vc`X"; Uf`Yhk Ug`5i ZfY[ i b[  
j YfgdØfh`Yfž`k Ybb`Yf`Ub`X]Y`h`U`hY`XYg`GU`Vi W\g`XYb`\_hž`XU`j ]Y`Y  
\`Yi hni hU[ Y`gck c`\`BUa Yb`U`g`Ui W\`; YgW\W\hYb`j cb`J cfZU\`fYb  
YbhXYW`\_Yb`\_ØbbYb`"

9]b`VYgcbXYfYg`hYfYggY`Ub`XYb`]\]ghcf]gWXYb`8c`\_i a YbhYb`nY][ h  
X]Y`B`UW\k i W\g\]ghcf]\_Yf]b`@]gU`?Y`Y`fYf`"`a`F`U\`a`Yb`]\`fYf  
A`UghYfUfVY]h`\`Uh`g]Y`XUg`GU`Vi W\`j cb: Øf\c`nYb`ØVYfgYhnh`i bX`gc  
ZØf`\`Yi h][ Y`@YgYf`ni [ `Àb[ `]W\`[ Ya`UW\h`"6YgcbXYfg`X]Y`DUggU[ Yb  
ØVYf`B`Uhi f`\_UhUghfcd\`Yb`\`UVYb`g]Y`VYY]bXfi W`h`"9]bY`GW\]`XYfi b[  
ØVYf`Y]b`j Yf\`YfYbXYg`<c`W\k UgYf`Ui g`XYa``š\`f`%+&\$ž`XUg`X]Y  
: Y`XYf`ØVYfZi hYhY`i bX`j ]Y`Y`H]YfY`Yfhf`Àb`hYž`[ ]Vh`Y]bYb  
Y]bXfi W`\_g c`Y`b`9]bV`]W`\_]b`X]Y`@YVYb`gfYU`]h`hYb`XYf`XUa`U`][ Yb

NY]h"

8 Ug'5fW]j !'i bX'6]V`]ch\Y\_gXYdch'XYf'9fnX]ÖnYgY'A ØbWYb'i bX  
: fY]g]b[ 'ghY\h'U`Yb' ðhYfYgg]YfhYb'c ZYb" 'B UW\ 'Y]bYf'j cf\Yf][ Yb  
5ba Y'Xi b[ '\_Ubb'XYf'@YgYgUU`XYg'nYbhfU'Yb'5fW]j g'\_cghYb`cg  
VYgi W'h'k YfXYb" 'J ]Y`Y`XYf'8c\_i a YbhYž'Y]bgW`]Y» `]W`XYg  
VYXYi hYbXYb'GU`Vi W'gž'g]bX`]bnk ]gWYb'X][ ]hU`]g]Yfhi bX'gca ]h  
Ui W'cb`]bY'UVfi ZVUf" 'Gc'k ]fX'Yg'a Ô[ `]Wž'X]Y'; YgW]W'hY`XYf  
FY[ ]cb'b]W'h'bi f'ni `YfZc'fgWYbž'gcbXYfb'Ui W'VYgcbXYfg  
gdUbbYbXY'9]bV`]W\_Y`]b'X]Y`J Yf[ Ub[ Yb\Y]h'ni `VY\_ca a Yb"

8YhU]`g

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