

Y6Um'ighUfhYh'bYi Yb`K Yf\_ghUhh!GYfj ]WV.  
: U\fnYi [ hY]`Y`cb`]bY`i bX`j cf`Cfh  
VYghY``Yb

9bXyW\_Yb`G]Y`XYb`bYi Yb`Y6Um`K Yf\_ghUhh!GYfj ]WV.  
6YghY``Yb`G]Y`VYeI Ya` : U\fnYi [ hY]`Y`cb`]bY`i bX`Vi WXYb`G]Y  
[ `Y]WV`X]Y`A cbhU[ Y`]b`Y]bYf`bU\Y[ Y`Y[ YbYb`K Yf\_ghUhh"  
DfcZ]h]YfYb`G]Y`j`cb`DfY]ghfUbgdUfYbnz`ZYI ]V`Yf  
HYfa`]bj`YfY]bVUfi`b[ `i`bX`XYa``Y6Um` : U\fnYi [ hY]`Y`!  
J`YfgdfYW`Yb`Z0f`gcf[ Yb`ZfY]Yg`9]b`\_Ui`Z`b`"9fZU`fYb`G]Y`z`k`Y  
G]Y`F`YdUfUhi`fYb`YZZ]n]Ybh`i`bX`\_cghYb[ 0bgh][ `Xi`fW`Z0`fYb`  
`UggYb`\_0bbYb`°



Y6Um`Vf]b[ h`bYi Yb`K Yf\_ghUhh!GYfj ]WV`Z0f`  
: U\fnYi [ hY]`Y`Ui`Z`XYb`A`Uf`\_h

⇒`Y]bYf`XYfnY]hj`cb`hYW`b]gW`Yb` : cfhgW`f]hhYb`[ YdfA`[ hYb`NY]h`U`h  
Y6Um`Y]bY`bYi`Y`@0gi`b[ `]bg`@YVYb`[ Yfi`ZYb`z`X]Y`gck`c`\`X]Y`?`Ui`Z`

U`g`Ui W`X]Y`F YdUfUhi fYfZU\fi b[ `Z0f`5i hcZU\ fYf]bbYb`Yf\YV`]W  
j YfVYggYfb`gc`""A ]h`XYa`bYi Yb`K Yf\_ghUhh!GYfj ]Wž`XYf`]b`[ Ubn  
8Yi hgW`UbX`j YfZ0[ VUf`]ghž`\_0bbYb`?Ai ZYf]bbYb`b]W`h`bi f`X]Y  
VYb0h][ hYb` : U\fnYi [ hY]`Y`VYei Ya`cb`]bY`Yfk YfVYbž`gcbXYfb  
X]YgY`Ui W`X]fY`\_ha ]h`Y]bYa`dUggYbXYb`GYfj ]W`]b`]\fYf`BÀ\Y  
\_ca V]b]YfYb`"8]YgY`9bhk ]W`\_i b[ `ghY`h`Y]bYb`VYXYi hYbXYb`GWf]h  
]b`F]W`hi b[ `HfUbgdUfYbn`i bX`6Ybi hnYfZfYi bX`]W`\_Y]h`]a`6YfY]W  
XYf`5i hcYdUfUhi f`XUf"

## 8 Ug`? cbnYdh`XYf`? cghYbhfUbgdUfYbn

9]b`nYbhfU`Yg`A Yf\_a U`XYg`bYi Yb`GYfj ]W`g`]gh`X]Y`UVgc`i hY  
DfY]ghfUbgdUfYbnž`X]Y`Yg`5i hcZU\ fYf]bbYb`Yf`Y]W`hYfhž`X]Y`?cghYb  
Z0f`9fgUhhY]`Y`i bX`XYfYb`A cbhU[ Y`]a`J cfUi g`ni`j Yf[ `Y]W`Yb`"  
8]Yg`UXXfYgg]Yfh`Y]b`Ài Z][ Yg`DfcV`Ya`ž`a ]h`XYa`j ]Y`Y`A YbgW`Yb  
\_cbZfcbh]Yfh`g]bX.`8]Y`i bg]W`Yf`Y]h`0VYf`X]Y`hUhg`W`]W`Yb  
K Yf\_ghUhd`fY]gY`"5bXfYUg`K ]Y`[ cggž`GYb]cf`8]fYWhcf`VY]`Y6Um  
A chcfgž`k Y]gh`XUfUi Z`\bž`XUgg`j ]Y`Y`?i bX]bbYb`cZh`Ub`XYb  
DfY]gYb`XYf`K Yf\_gh`hYb`nk Y]Z`b`cXYf`6YXYb`\_Yb`]\bg]W`h]W`XYf  
Ni j Yf`Àgg][ \_Y]h`XYf`FYW`bi b[ Yb`UVYb`"8i fW`X]Y`9]bZ0fi b[  
XYg`K Yf\_ghUhh!GYfj ]W`g`\_0bbYb`X]YgY`Yb[ ghY`bi b`k ]f`\_i b[ gj`c`  
[ Ya ]`XYfh`k YfXYb"

## 8 ]Y`J cfhY]`Y`XYg`bYi Yb`5b[ YVchg

- 9]bZUW`Y`6i W`i b[ .`Bi hnYf]bbYb`\_0bbYb`X]Y  
: U\fnYi [ XYhU]`g`0VYf`Y]bYb`gdYn]Y`Yb`HY]`YZ]bXYf  
Y]b[ YVYbž`XYf`g]W`YfghY`hž`XUgg`bi f`\_ca`dUh]V`Y`HY]`Y  
Ub[ YnY][ h`k YfXYb"
- ?ca V]bUh]cb`j`cb`?Ui Zi bX`GYfj ]W`.8Yf`[ YgUa`hY  
DfcnYgg`\_Ubb`]b`Y]bYf`Y]bn][ Yb`HfUbgU`\_h]cb  
UV[ YgW`cggYb`k YfXYbž`c`bY`X]Y`D`UhhZcfa`ni`j Yf`UggYb`"  
8]Y`HY]`Y`k YfXYb`X]fY`\_h`Ub`X]Y`K Yf\_ghUhh`Ybj`cmYf"
- :`Yi ]V`Y`HYfa ]bVi W`i b[ .`?i bX]bbYb`\_0bbYb`]\fYb  
K i bgW`hYfa ]b`fi bX`i a`X]Y`i`f`Ui gk`À`Yb`i bX`g]bX`b]W`h  
Ub`^Zbi b[ gnY]hYb`[ YVi bXYb"
- ?i fnY`K Y[ Y.`Y6Um`U`hYg`g]W`ni a`N]Y`[ YgYhnhž`XUgg`,\$  
DfcnYbhXYf`Bi hnYf]bbYb`]b`k Yb][ Yf`U`g`nY`b`?]`ca`YhYfb

j cb`Y]bYf`K Yf\_ghUhh`YbhZf`b`h`g]bXž`k Ug`XYb`Ni [ Ub[  
Ybcfa`Yf`Y]W`hYfh`

## 8 ]Y`F`Y`Yj`Un`ZØf`X]Y` ;`YgY`g`W`UZh

⇒a`?`cbhYl`h`ghY][`YbXYf`@YVYbg`U`hi`b[`g`cghYb`i`bX`]a`a`Yf`  
\_ca`d`Yl`Yf`k`YfXYbXYf` :`U`fnYi`[`hY`W`bc`c`[`]Yb`]gh`XYf`Ni`[`Ub[`ni`  
dfY]gk`YfhYb`F`YdUfUhi`fcdh]cbYb`VYgcbXYfg`k`]W`h][`"J]Y`Y`  
5i`hcZU`fYf]bbYb`UVYb`b]W`h`X]Y`A`Ö[`]W`\_Y]hž`\_`Y]bY`  
F`YdUfUhi`fYb`gY`Vgh`Xi`fW`ni`ZØ`fYbž`k`Yg`U`V`XYf`6YXUfZ`Ub`  
j`YfhfUi`Ybgk`ØfX][`Yb`K`Yf\_gh`h`hYb`k`ÅW`gh`8]YgYg`bYi`Y`5b[`YVch`  
j`cb`Y6Um`ighY`h`gca`]h`b]W`h`bi`f`Y]bY`dfU`h]gW`Y`@Øgi`b[`ZØf`  
]bX]j`]Xi`Y`Y`DfcV`Ya`Y`XUfž`gcbXYfb`gd]Y[`Y`h`Ui`W`Y]bYb`VfY]hYfYb`  
HfYbX`k`]XYfž`XYf`]b`XYf` ;`YgY`g`W`UZh]a`a`Yf`VYhfUW`hYhYf`k`]fX`.  
8]Y`Bchk`YbX][`\_Y]h`bUW`\_cghYb[`Øbgh][`Ybž`UVYf`XYb`bcW`  
ni`j`Yf`Ägg][`Yb`8]YbghY]ghi`b[`Yb`"

## DUf`hb`Yfg`W`UZh`Yb`i`bX`J`Yfb`Yhni`b[

I`a`X]YgYb`bYi`Yb`GYfj`]W`ni`fYU`g]YfYbž`U`h`Y6Um`Y]bY`  
DUf`hb`Yfg`W`UZh`a`]h`XYa`fYbca`a`]YfhYb`K`Yf\_ghUhh!DcfhU`fYdUfYc`  
Y]b[`Y[`Ub[`Yb`"8]YgYg`gcf[`h`ZØf`Y]bY`VfY]hY`5VXYW`i`b[`i`bX`  
Yfa`Ö[`]W`h`Ygž`gck`c`\\`c`\_U`Y`U`g`Ui`W`VY`\_UbbhY`F`YdUfUhi`f`\_Y`h`Yb`  
]b`X]Y`8]YbghY]ghi`b[`Yb`Y]bni`VYn]Y`Yb`"?i`bX]j]bbYb`UVYb`gc`X]Y`  
A`Ö[`]W`\_Y]hž`g]W`Ui`ZY]bY`5i`gk`U`\\`ni`j`Yf`UggYbž`X]Y`gcf[`Z`h][`  
Ui`g[`Yk`Å`h`k`i`fXY`i`bX`bi`f`K`Yf\_gh`h`hYb`i`a`ZUgghž`X]Y`XUg`  
J`YfhfUi`Yb`j`cb`Y6Um[`Yb]Y»Yb`"

## :`Un]h

8Yf`bYi`Y`K`Yf\_ghUhh!GYfj`]W`j`cb`Y6Um]gh`Y]b`VYXYi`hYbXYf`  
 :`cfhgW`f]hh]b`XYf`5fh`i`bX`K`Y]gYž`k`]Y` :`U`fnYi`[`hY]`Y`i`bX`  
K`Ufhi`b[`gX]YbghY]ghi`b[`Yb`a`]hY]bUbXYf`j`YfVi`bXYb`k`YfXYb`"A`]h`  
XYa` :`c`\_i`g`Ui`ZHfUb`gdUfYbn`i`bX`6Ybi`hnYfZfYi`bX`]W`\_Y]h`V]YhYh`  
Y6Um`Y]bY`@Øgi`b[`ž`X]Y`b]W`h`bi`f`NY]hi`bX` ;`Y`X`gdUf`hž`gcbXYfb`  
Ui`W`XUg`J`YfhfUi`Yb`]b`XYb`5i`hc`fYdUfUhi`fa`Uf`h`gh`Å`f`h` :`Øf`j`]Y`Y`  
 :`U`fYf]j]bbYb`\_Øb`bhY`X]YgYf`GYfj`]W`XYf`GW`ØggY`ni`Y]bYa`

gcf[ YbZfY]YfYb`l a [ Ub[ `a ]h: U\fnYi [ fYdUfUhi fYb`gY]b"

: Øf`k Y]hYfY`bZcfa Uh]cbYb`VYgi WXYb`G]Y`XUg`Y6Um  
DfYggYnYbhfi a "

8YhU]`g

6Ygi WXYb`G]Y`i bg`Ui Z.`a Y]b!VYf`]b"bYh