

6cV`8m`Ub. `8Yf`ØVYffUgWÅYbXY`6cl ZUb
Ui g`XYf`7c`cb]U` ; i YffYfc

⇒ `ſ\`f`&\$\$, `ØVYffUgWÅhY`6cV`8m`Ub`X]Y`6Ygi WÅYf`XYg
6cl ghi X]cg`Bi Yj c`œfX½b`]b`A Yl]_c!GhUXh`a`]h`gY]bYb
VYY]bXfi W_YbXYb`6cl`_ØbghYb"

6cV`8m`Ub`i`bX`X]Y`@]YVY`ni`a`6cl`gdcfh

8Yf`a`Y\`fZUWÅ`Ui`g[`YnY]WÅbYhY`A`i`g]_Yf`6cV`8m`Ub`]gh`b]WÅh`bi`f
ZØf`gY]bY`A`i`g]_`VY`_Ubbhž`gcbXYfb`Ui`WÅ`ZØf`gY]bY`@Y]XYbgWÅ`UZh`ZØf`
XUg`6cl`Yb``8]YgY`GdcfhUfh`VY[`Y]hYh`\`b`gWÅ`cb`gY]h`gY]bYf`š`[`YbXž
U`g`g]Y`HY]`gY]bYg`GWÅ`i`W`ff]W`i`a`g`k`Uf" ⇒ `ſ\`f`&\$\$, `gcf[`hY`Yf
]b`Y]bYa`_`Y]bYb`6cl`[`ma`bUgh]_`]b`A`Yl`]_c!GhUXh`ZØf`5i`ZgY\`Ybž`U`g
Yf`ZØf`Y]bY`HfU]b]b[`gY]b\`Y]h`YfgWÅ]Yb`i`bX`XUVY]`gY]bY` :`À\`[`_Y]hYb
i`bhYf`6Yk`Y]g`ghY`hY"

9]b`ØVYffUgWÅYbXYg`HfYZZYb`]a`Bi`Yj`c
œfX½b

8]Y`GnYbY`YfY][`bYhY`g]WÅ`]a`[`ma`Bi`Yj`c`œfX½bž`Y]bYa
VY`_UbbhYb`6cl`ghi`X]c`]b`XYf`hfUX]h]cbY`Yb`7c`cb]U` ; i YffYfc"
<]Yf`hfU]b]YfhYb`Ub`X]YgYa`HU[`b]WÅh`bi`f`c`_U`Y`6cl`VY[`Y]ghYfhYž
gcbXYfb`Ui`WÅ`8m`Ubž`XYggYb`5bk`YgYb\`Y]h`UbZUb[`g`b]Ya`UbXYb
Yfk`UfhYhY" `8Yf`HfU]bYf`F`cXc`Zc` ; ØYfWÅ`F`cXfÉ`i`Yn`Yf]bbYfhY`g]WÅ
]b`Y]bYa``b`hYfj`]Yk`Ub`XYb`gWÅ`cW_]YfYbXYb`A`ca`Ybhž`U`g`Yf
Yf`_UbbhYž`XUgg`X]Y`VYfØ`a`hY`DYfg`Øb`]WÅ`_Y]h`HY]`XYf
HfU]b]b[`g[`fi`ddY`k`Uf" `I`a`%(.`.\$`\$`I`\`f`_Ua`8m`Ub`a`]h`XfY]
6Y[`Y]hYfb`]b`X]Y`6cl`\`U`Yž`i`bX`VY]`gY]bYa`5bV`]W`_Ughni`XYa
HfU]bYf`XYf`9]bXfi`W`ž`Yf`_Øb`bhY`Y]bYb`<`YfngWÅ`U[`Yf`Y]XYb"

6cl Yb`U`g`HY]`Y]bYf`a i g]_U`]gW\ Yb`? Uff]YfY

8]Y`J YfV]bXi b[`nk]gW\ Yb`8mUb`i bX`XYa`6cl gdcfh]gh`h]YZ
j Yfk i fnY`h`6YfY]hg`]b`gY]bYb`ZfØ\YfYb`ϕhYfj]Yk g`gdfUW\ `Yf`ØVYf
X]Y`dcg]hj] Yb`5gdY`hY`XYg`6cl Ybgž`X]Y`Ui W\`9]bZi`gg`Ui Z`gY]bY
A i g]__Uff]YfY`UhhYb`"A]hGcb[g`k]Y` `K `c`?]`YX`8Uj Ym`A cc`fY3
fYZY`_h]Yfh`8mUb`ØVYf`X]Y`<YfUi`gZcfXYfi b[Yb`i bX`F]g]_Ybž`XYbYb
6cl Yf`Ui g[YgYhnh`g]bX`"8]YgY`H\Ya`Uh]g]Yfi b[`nY][`h`b]W\h`bi`f
8mUb`g`J YfVi bXYb`Y]h`a]h`XYa`Gdcfhž`gcbXYfb`Ui W\`gY]bY
[YgY`gW\UZh`g_f]h]gW\ Yb`5bg]W\hYb"

8 Yf`HfU]bYf`i bX`gY]bY`K`YfhgW\`Àhni b[

F`cXc`Zc` ; ØYfW\`VYa`Yf`_hY`gW\`bY`"8mUb`g` : Yfh][`_Y]hYb`]a`F]b[` "9f
ZØ\fhY`]b`Xi`fW\`Y]b][`Y` , Vi`b[Yb`k]Y`XUg`HfU]b]b[`Ub`XYf`DfUmYb
i bX`XYa`gW\`k YfYb`GUW`ž`VYj`cf`8mUb`gW\`]Y»`]W\`gY`Vgh]b`XYb
F]b[`gh]Y[` "K]Y`g]W\`YfUi`gghY`hYž`k Uf`8mUb`[i`h`j`cfVYfY]hYh`9f
hfi [`b]W\h`bi`f`GWi`h`Ui`gfØghi`b[ž`gcbXYfb`nY][`hY`Ui`W\`XYi`h]W\Y
: `À\][`_Y]hYbž`X]Y`Ui`Z`U\`fY`Ub[Yg`HfU]b]b[` \]bXYi`hYhYb"

9]b`VYgc`bXYfYg`HfU]b]b[`gYf`YVb]g

GYf[]c`A`UmYfž`XYf`XYb`6Ygi`W\`XYg`GÀb[Yfg`]b`Bi`Yj`c`æ`fX`½`b
cf[Ub]g]Yfh`UhhYž`k Uf`j`cb`8mUb`g`9bhgW\`i`gg`VYY]bXfi`W`hž`g]W\`]b
Y]bYa`hfUX]h]cbY`Yb`i`bX`b]W\h`]b`Y]bYa`i`i`f]ØgYb` ; ma`bUg]i`a
ni`hfU]b]YfYb`"9f`Ai`»`YfhY`g]W\`ni`XYb`6YXYb`_Ybž`X]Y`Yf`VYnØ[`]W\`
8mUb`g`G]W\Yf\Y]h`\UhhYž`k Ug`g]W\`gd`ÀhYf`YXc`W\`U`g`i`bVY[`fØbXYh
\YfUi`gghY`hY"

8]Y`5i`gk`]f`_i`b[`Yb`Ui`Z`X]Y` ; Ya`Y]bgW\`UZh

8Yf`6Ygi`W\`j`cb`6cV`8mUb`]a`Bi`Yj`c`æ`fX`½`b`\Uh`XUg`_Y]bY
6cl`ghi`X]c`]b`XYb` : c`_i`g`XYf`²`ZZYb`h]W\`_Y]h`[`YfØW`h`"9g`nY][`hž`k`]Y
Ui`W\`dfca`]bYb`hY`DYfg`Øb`]W\`_Y]hYb`XYf`?`fYUh]j`VfUb`W\Y`XYa`Gdcfh
i`bX`XYf` ; Ya`Y]bgW\`UZh`K`YfhgW\`Àhni`b[`Ybh[`Y[`YbVf]b[`Yb`"8Yf
6cl`gdcfhž`c`Zi`a`]h`Y]bYf`fUi`Yb`5i`»`YbgY]hY`j`YfVi`bXYbž`Yf\`À`h
Xi`fW\`gc`W\Y`6Ygi`W\Y`Y]bY`bYi`Y`DYfgdY`_h]j`Y`i`bX`k`]fX`U`g`HY]`

Y]bYf']bhY[fUh]j Yb'?'i`hi f'UbYf_Ubbh"

: Un]h' '9]bY '@Y]XYbgW\ UZhž'X]Y'j YfV]bXYh

8m'Ubg'9b[U[Ya Ybh'ZØf'XUg'6cl Yb']gh'Y]b'Y]bXfi W_gj c`Yg
6Y]gd]Y`XUZØfž'k]Y'Gdcfhi bX'?'i bgh'a]hY]bUbXYf'j YfgW\ a Y`nYb
_ÖbbYb"'9g'nY][hž'XUgg'_fYUh]j Y'?'ÖdZY'k]Y'8m'Ub'b]W\h'bi f']b'XYf
A i g]_ž'gcbXYfb'Ui W\ 'ja 'Gdcfh'[fc»Y '@Y]XYbgW\ UZh' bX
9b[U[Ya Ybh'nY][Yb"'8]Yg']gh'Y]bY'6chgW\ UZhž'X]Y'gck c`\`
5b\Äb[Yf'j cb'6cl gdcfh'U`g'Ui W\ 'A i g]_]YV\UVYf']bgd]f]Yfh"

' 'B5;

8YhU]`g

6Ygi W\ Yb'G]Y'ibg'Ui Z.'b!U["XY