

: 7`A Ya a]b[Yb`[`Ui Vh`Ub`XUg`K i bXYf.
8 fUa Uh]gW\Yg`Dc_U`!5i g`[Y[Yb`%, * \$
A ØbW\Yb

⇒ a`5W\hY`Z]bU`Y`XYg`Hchc!Dc_U`g`g]W\Yfh`g]W\`HGJ`%, * \$
A ØbW\Yb`a`]h`Y]bYa`gd`ÅhYb`HfYZZYf`XYb`&.%!G]Y[`Y[Yb` : 7
A Ya a]b[Yb`"

⇒ a`5W\hY`Z]bU`Y`XYg`Hchc!Dc_U`!K`YhhVYk`YfVg`_Ua`Yg`Ua
j`Yf[Ub[YbYb`K`cW\YbYbXY`ni`Y]bYa`XfUa`Uh]gW\Yb`8i`Y`
nk`]gW\Yb`XYa` : 7`A Ya a]b[Yb`Ui`g`XYf`6UmYfb`][U`GØX`i`bX`XYb
8f]hh`][ghYb`HGJ`%, * \$`A ØbW\Yb`"⇒ b`Y]bYa`gd`UbbYbXYb`Gd]Y`ž`XUg
V]g`ni`f`YhnhYb`GY`_i`bXY`Ui`ZXYf`?`]ddY`ghUbXž`_cbbhYb`g]W\`X]Y
A ØbW\Yb`Yf`]b`XYf`Xf]hhYb`A`]bi`hY`XYf`B`UW\gd]Y`nY]h`Xi`fW\`Y]b`Hcf
j`cb` : UV]Ub`GW\i`VYfh`a`]h`&.%f%. \$£`Xi`fW\gYhnYb`i`bX`XUa`]h`XUg
J]YfhY`Z]bU`!H]W_Yh`ÖgYb`"

J`cf`XYb`&) \$-`Ni`gW\Ui`Yfbž`XUfi`bhYf`Ui`W\`XYf`DfÅg]XYbh`XYg
6UmYf]gW\Yb` : i`»`VU`j`YfVUbXg`f6` : J`Ł`7`f]ghcd`?`Yfbž`nY][`hY`g]W\
XYf`HGJ`%, * \$`j`cb`5bZUb[`Ub`gd]Y`VYgh]a`a`YbX`"Hfch`XYf`
,`VYf`Y[Yb`Y]h`_cbbhY`X]Y` ;`YZ`Å`f]W\`_Y]h]b`XYb`C`ZYbg]j`U`h]cbYb
b]W\h`k`]f`_]W\`ØVYfnYi`[Yb`"8Yf` : Ø`fi`b[ghfYZZYf`Z]Y`]b`XYf`(`%`
A`]bi`hY`Xi`fW\`DUhf]W`_<cVgW\ž`XYf`b`UW\`Y]bYf` : `Ub`_Y`Ui`g`_i`fnYf`
8]ghUb`n`XYb`6U`"ØVYf`X]Y`@]b]Y`XfØW`hY`"

: 7`A Ya a]b[Yb`a`Y`XYh`g]W\`ni`fØW`_

B`UW\`XYa`GY]hYbk`YW\gY`nY][`hYb`X]Y`A`Ya`a`]b[Yf`Y`XcW\`Y]bYb
VYa`Yf`_Ybgk`YfhYb`?`Ua`dZ[Y]ghi`bX`[`]W\Yb`]b`XYf`,`&"`A`]bi`hY
Xi`fW\`_U`_cV` ;`fÅgYf`Ui`g`"8`]YgYf`HfYZZYf`_Ua`_`_Y]bYgZU`g
ØVYffUgW\YbXž`XU`A`Ya`a`]b[Yb`]b`XYf`nk`Y]hYb`<U`VnY]h`a`i`h][`Yf`
Ui`Zh`Uh`i`bX`XUa`]h`XYa`Gd]Y`Y]bY`K`YbXi`b[`UV`"8]Y`YhnhYb`

A]bi hYb`XYi hYhYb`ghUf`XUfUi Z`\]bž`XUgg`XUg`Gd]Y``]bg
9`Za`YhYfgW]Y»Yb`[Y\Yb`_ÖbbhYž`XcW`XUbb`_Ua`XYf
YbhgW]Y]XYbXY`A ca`Ybhž`U`g`GW`i`VYfh`]b`XYf`B`UW`gd]Y`nY]h
XfUa`Uh]gW`ZcfXYfhY"

6: J!DfÄg]XYbh`7`f]ghcd`\`?Yfb`Äi`»YfhY`g]W`YVYbZU``g`ni`XYa
gdUbbYbXYb`Gd]Y`j`Yf`Ui`Z`i`bX`[`fUhi``]YfhY`VY]XYb`HYUa`g`ni`i`]fYf
@Y]ghi`b`["`8`Ug`]gh`Ygž`k`Ug`k`]f`i`bg`]a`Hchc!Dc`_U`k`ØbgW`Yb`
DUfh]Yb`Ui`Z`XYg`A`YggYfg`GW`bY]XY" `A`Ya`a`]b`[`Yb`k`i`fXY`b`UW`XYf
DUi`gY`a`i`h][`Yf`i`bX`VY`c`\bhY`g]W`a`]h`XYa`gd`Ä`hYb`5i`g`[`Y]W`"
5VYf`XUbb`gYhnh`GYW`n][`XYb`GW`i`ggdi`b`_hi`bX`g]W`Yfh`g]W`XUg
J]YfhY`Z]bU`!H]W`_Yh`ž`Yf`_`Ä`fhY`Yf"

≠`Y]bYa`k`Y]hYfYb`Gd]Y`XYg`5W`hY`Z]bU`g`_cbbhY`XYf` : 7
≠[`c`ghUXh`\$(`ž`XYf`Ua`h]YfYbXY`Hchc!Dc`_U`!7`Ua`d]cbž`gY]bYb`H]hY`
YfZc`[`fY]W`j`YfhY]X][`Yb`i`bX`[`Yk`Ubb`[`Y[`Yb`X]Y`K`ØfnVi`f[`Yf
?]W`_Yfg`a`]h"`.%f%.\$L`8`Ug`Gd]Y`ZUbX`j`cf`Yhk`U`%\$\$\$`Ni`gW`Ui`Yfb
ghUhhž`i`bX`X]Y`HcfY`ZØf`XYb` : 7`=Yfn]Y`hYb`H]a`<Y`_Yž`G]a`cb
HYghfcYh`i`bX` : Y`]i`?Y]XY`ž`k`Ä`fYbX`A`U]`ja`]`]Ub`8]YhYf` : YggYf`]b
XYf`GW`i`ggd`UgY`ZØf`X]Y`?]W`_Yfg`hfUZ" `≠[`c`ghUXh`\`Uh`XUa`]h
YfbYi`h`XYb`Gdfi`b`[`]b`X]Y`F`i`bXY`XYf`YhnhYb`UW`h`HYUa`g
[`YgW`UZh"

8]Y`V]g\Yf][`Yb`J]YfhY`Z]bU`]ghYb`i`a`ZUggYb`Ui`W`X]Y
F`Y`[`cbU``][`]ghYb` : 7`9]bhfUW`h`6`Ua`VYf[`ž`%": 7`GW`k`Y]bZ`fh`\$) `ž
HØf`_[`ØWØ`A`ØbW`Ybž`8`ž`J`]n]b`[`i`bX` : J`≠`Yfh]ggYb" `≠gVYgcbXYfY
X]Y`8`ž`J`]n]b`[`VYY]bXfi`W`_hY`a`]hY]bYa`_`UfYb"`.!G]Y`[`Y[`Yb
XYb`G7`9`hYfgXcfZž`k`cVY]`@`_Ug`8`chn`Yf`nk`Y]`A`U`i`bX`DUi`
;`fUi`gW`cdZ]Y]ba`U`ZØf`X]Y`C`VYfdZÄ`nYf`]bg`BYhn`hfUZ"

8UfØVYf`\]bUi`g`[`UV`Yg`Ui`W`Yb`[`Y`Gd]Y`Yž`k`]Y`XUg`8`i`Y``nk`]gW`Yb
XYf`GdJ`[`[`<`Ub`_cZYb!<U]`]b`[`i`bX`HØf`_[`ØWØ`A`ØbW`Ybž`XUg
`Yhnh]W`&.`%`ZØf`X]Y` ;`ÄghY`YbXYhY" `H]bc`F`Y]W`k`Uf`XUVY]`XYf
A`UhW`k`]bbYf`ZØf`X]Y`BYi`dYf`UW`Yf`a`]hY]bYa`ZfØ`Yb`8`cddY`dUW`"

8`Ug`5W`hY`Z]bU`Y`k`]fX`Ua`A`]hk`cW`a`]hY]bYa`Dc`_U`!`?`fUW`Yf
nk`]gW`Yb`XYa` : 7`8Y]gYb`cZYb`i`bX`XYf`GdJ`[`[`i`bhYf`UW]b`[
UV`[`Yfi`bXYh`8Y]gYb`cZYbž`XYf`g]W`]a`j`cf`Yf][`Yb`8`i`Y``[`Y[`Yb

XYb`GJ`K UW_Yf`6i f[\Ui gYb`Xi fW [YgYhnh`\UhYž`hf]Zh`Ui Z`XYb
8f]hh)[]ghYb`Ui g`I bhYf\UW]b[ž`bi f`(`ž , `?)`ca YhYf`@ Zh]b]Y
YbhZYfbh"

8YhU]`g

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