

B Yi ghUXh. Dfmgga]Ub! ? UvY`k Yf_`ghUfhYh bYi Yb`A cV]`hÅhggyfj]W`ZØf`5ni V]g

Dfmgga]Ub`]b`BYi ghUXh`VY]`7cVi f[`nY][h`d`cg]h]j Y
9bhk]W`i b[.`%\$\$`BYi Y]bghY``i b[Ybž`þj Ygh]h]cbYb`i bX`bYi Y
² DBJ!5bV]bXi b["

8]Y`A]hUfVY]hYf`XYg`? UvY`k Yf_g`nY][Yb`ghc`n`]\fY`HfUX]h]cb. `A]`Ub
C fY`ž`GYVUgh]Ub`GhfUi VY``i bX`@ WWU`J Uff]U`Y`VY]`Y]bYa `Fi bX[Ub[
Xi fW`XYb` : Yfh][i b[gVYfY]W`]b`BYi ghUXh`#`c`hc. `@UbXfUhgUa h
7cVi f[#6Yfh\c`X`? Ò\`Yf

K]W`h][Y`9bhk]W`i b[Yb`]a `BYi ghUXhYf ? UvY`k Yf_`

8]Y`9bhk]W`i b[Yb`]a `? UvY`k Yf_`BYi ghUXh`g]bX`b]W`h`bi f`ZØf`XUg
l bhYfbY`a Yb`gY`Vghj cb`6YXYi hi b[ž`gcbXYfb`Ui W`ZØf`X]Y
[YgUa hY`FY []cb`7cVi f["8]Y`Dfmgga]Ub!; fi ddYž`X]Y`k Y`hk Y]h
U[]Yfh`i bX`Y]bYb`l a`gUhn`j cb`%) `A]`UfXYb`9i fc`Yfn]Y`hž`]bj Ygh]Yfh
g][b]Z]_Ubh]b`XYb`GhUbXcfh`BYi ghUXh`8]YgY`þj Ygh]h]cbYb`ZØ`fYb
b]W`h`bi f`ni `a`Y`f`5fVY]hgd`ÅhnYbž`gcbXYfb`Ui W`ni `Y]bYf
j YfVYggYfhYb`þZfUghfi _hi f`ZØf`X]Y`A]hUfVY]hYf"

B Yi Y`A cV]`hÅhg`Øgi b[Yb`ZØf``i b[Y`HU`Yb`hY

9]b`k]W`h][Yf`5gdY`_h`X]YgYf`d`cg]h]j Yb`9bhk]W`i b[Yb`]gh`X]Y
[Yd`UbhY`9]bZØ`fi b[`Y]bYf`bYi Yb`6i`g`]b]Yž`X]Y`gdYn]Y``ZØf`i b[Y
A]hUfVY]hYf`_c`bn]d]Yfh`k`i`fXY``8]YgY`@]b]Y`k]fX`nk]gW`Yb`XYa
6U`b`c`Z`BYi ghUXh`i bX`XYb`þXi`ghf]Y[YV]YhYb`j Yf`Y`fYbž`k Ug`X]Y
9ffY]W`VUf`_Y]h`XYg`? UvY`k Yf_g`ZØf`6Yfi ZgUbZ`Ab[Yf`c`b`Y
: Ø`fYfgW`Y]b`Yf`Y]W`hYfh`DYfgcbU`Y]hYf]b`A Uf]U`@Ub[Yb`U`b
VYhcb`h`X]Y`B`chk YbX][_Y]h`gc`W`Yf`þ]h]Uh]j Ybž`i`a`X]Y`5`hfU`_h]j]hÅh

XYg'GhUbXcfhg'ZØf'XYb'BUWk i W'g'ni 'Yf\Ø\Yb"

: Ua]`YbZfYi bX`]WY`I bhYfbY\ a Ybg_i `hi f

8 Ug'? UVY`k Yf`_`Ubb`Ui ZY]bY`Ub[Y`HfUX]h]cb`ni fØW_V`]W_Ybž`X]Y
V]g`]bg`]X\ f`%`-` +`fY]W'h"8]YgY`J YfV]bXi b[`ni f`; YgW]W'hYž
[YdUUfh'a]h`Y]bYf`ghUf_Yb`I bhYfbY\ a Ybg_i `hi fž`ZØfXYfh`XUg
; Ya Y]bgW`UZhg[YZØ`\`i bhYf`XYb`A]hUfVY]hYfb" `A Uf]U`@Ub[Yb\U\ b
\YVh\Yfj c fž`XUgg]b`j]Y`Yb` : Ua]`Yb`a Y\ fYfY ; YbYfUh]cbYb`]a
? UVY`k Yf`_`h`h][`g]bX"8]Yg`nY][h`b]W`h`bi f`X]Y`J YfhfUi h`Y]h`a]h
XYa `I bhYfbY\ a Ybž`gcbXYfb`Ui W`X]Y`6]bXi b[ž`X]Y`A]hUfVY]hYf`ni
\fYa `5fVY]hgcfh`Ya dZ]bXYb"

: UW`_`f`ÀZhYg]WY`Yfi b[`Xi fW`5i gV]`Xi b[

I a `XYb` : UW`_`f`ÀZhYa Ub[Y`U`_h]j `ni `VY`_`Àa dZYbž`k]fX`X]Y`NU\`XYf
5i gni V]`XYbXYb`]a `_ca a YbXYb`5i gV]`Xi b[g`U`f`Ui Z%) `Yf\Ø\hž
ni g`h`m`]W`ni `j]Yf`K Yf`_ghi XYbhYb" `I a `X]Y`↑ b[Yb`HU`YbhY`ni
YffY]W`Ybž`]gh`XUg`I bhYfbY\ a Yb`]b`c`_U`Yb`5i gV]`Xi b[ga YggYb
U`_hj` ` [Yk cfXYbž`k Ug`XYi h`]W`Y`9fZc`[Y`[YnY][h`\Uh" `A Ufh]b
GW`a]mž`@Y]hYf`XYf`@UbX`_fY]g]K]fhgW`UZhgZØfXYfi b[ž`i bhYfghØhnh
X]YgY`A U» bU\ a Yb`i bX`VYhcbh`]fY`6YXYi hi b[`ZØf`X]Y
G]W`hVUf`_Y]h`i bX`5hfU`_hj]h`h`X`Yf`6]`Xi b[gUb[YVchY`]a
? UVY`k Yf`_`"

⇒b] Ygh]h]cbYb`]b`X]Y`Ni `i bZh

Dfmg`a]Ub`\Uh`Ui W`_`Øfn`]W`bYi Y`DfcXi `_h]cbggh`h`hYb`j ca `K Yf`_
]b`6Yf`]b]`? ØdYb]W`_`bUW`B`Yi ghUXhj Yf`Y[hž`k Ug`ni g`h`m`]W`) \$
5fVY]hgd`ÀhnY`a]h]g]W`Vf]b[hi bX`⇒b] Ygh]h]cbYb`]b`cb`Yhk`U`nk`Y]
A]`cbYb`9i fc`YfZcfXYf`]W`a UW`h"8]YgY`9]bgW`b]hY
j YfXYi h`]W`Yb`X]Y`F`Y`Yj Ubn`XYg`GhUbXcfhYg`ZØf`X]Y`Dfc`Y`_hY`]b
A]hY`!`i bX`C`ghYi fcdU`i bX`i bhYfghfY]W`Yb`X]Y`_cbh]bi]Yf`]W`Y
9bhk]W`_i b[`i bX`9i dUbg]cb`XYg`I bhYfbY\ a Ybg"

: Un]h.`9]b`@]W`hV`]W`_`ZØf`X]Y`F`Y[]cb

⊕`NY]hYbž']b`XYbYb`X]Y`G]WXYfi b[`j cb`5fVY]hgd`ÀhnYb`i bX`X]Y
GWUZZ b[`bYi Yf`5fVY]hga Ò[`]W_X]hYb`]b`j]Y`Yb`FY[]cbYb`Y]bY
<YfUi gZcfXYfi b[`XUfghY`hž`ghY`h`XUg`BYi ghUXhYf`? UVY`k Yf`_Y]b
6Y]gd]Y`ZØf`dcg]hj] Y`9bhk]W_`i b[Yb`XUf``8]Y`⊕j Ygh]h]cbYb`i bX`X]Y
⊕]h]Uhj] Y`ni f`J YfVYggYfi b[`XYf`A cV`]h`h`g]bX`k]W`h][Y`GW`f]hYž
X]Y`b]W`h`bi f`XYa `l bhYfbY`a Ybž`gcbXYfb`Ui W`XYf`[YgUa hYb
FY[]cb`7cVi f[`ni [i hY`ca a Yb`

8 Ug`_Òb bhY`G]Y`YVYb ZU``g`]bhYfYgg]YfYb.

8 YhU]`g

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