

9bh`Ui ZYbY`@0k]b. `H]YfgWk ØhnYf`Zc fXYfb J YfVch`YI ch]gWk Yf`< Ui gh]YfY

9bh`Ui ZYbY`@0k]b. `H]YfgWk ØhnYf`a UWkYb`8 fi W_`9]bY
Ybh`Ui ZYbY`@0k]b`gcf[h`XYfnY]h`Z0f`5i ZfY[i b[`]a `G0XYb
6Yf`]bg" `8 Ug`K]`Xh]Yf`k i fXY`[Y[Yb`A]hhYfbUWk h]b
?`Y]ba UWkbck `g0X`]Wk`XYf`<Ui dhghUXh[Yg]Wk hYh" `8]Y`Dc`]nY]
gi Wk h`a]h`<i VgWk fUi VYfb`bUWk`XYf`F Ui V`UhnY`i bX`k Ufbh
X]Y`6Yj 0`_Yfi b[`j cf`GdUn]Yf[Åb[Yb`]a `K U`X" `8]Y
H]YfgWk i hncf[Ub]gUh]cb`DYhU`Zc fXYfh`Ub[Yg]Wk hg`XYg`J cfZU`g
Y]b`K]`Xh]Yfj YfVch]b`8 Yi hgWk`UbX" `8]Y`Gi Wk Y`bUWk`XYf
Ybh`Ui ZYbYb`@0k]b`U`h`X]Y`8]g`_i gg]cb`i a `H]YfgWk i hn`i bX
[Y`hYbXY` ; YgYhnY`bYi `YbhZUWk h" `A UfYYb`9ga Y]Yfž`@Y]hYf]b
XYg`H]Yf\Y]a g`6Yf`]b`i bX`ghY``j YfhfYhYbXY
; YgWk ÅZhgz0\ fYf]b`XYg`H]YfgWk i hn] YfY]bg`Z0f`6Yf`]bž
_f]h]g]Yfhž`XUgg`]b`8 Yi hgWk`UbX`YXYf`Df]j UhdYfgcb`Yf`Ui Vh
]ghž`YI ch]gWk Y`H]YfY`ni `VYg]hnYbž`X]Y` \]Yf`k YXYf`\Y]a]gWk
bcWk`Ufh[YfYWk h/ Ua d^Y``]d/



9bh`Ui ZYbY`@0k]b. `H]YfgWk ØhnYf`a UWkYb`8 fi W_`

9]bY`YbhUi ZYbY`@Ok]b`gcf[h`XYfnY]h`Z0f`5i ZFY[i b[`]a `G0XYb
6Yf`]bg" `8 Ug`K]`Xh]Yf`k i fXY`[Y[Yb`A]hYfbUW`h]b`?`Y]ba UW`bck
g0X`]W`XYf`< Ui d hghUXh`[Yg]W`hYh" `8]Y`Dc`nY]`gi W`h`a]h
< i VgW`fUi VYfb`bUW`XYf`FUi V`UhnY`i bX`k Ufbh`X]Y`6Yj 0`_Yfi b[
j cf`GdUn]Yf[`Ab[Yb`]a `K U`X" `8]Y`H]YfgW`i hncf[Ub]gUh]cb`DYhU
ZcfXYfh`Ub[Yg]W`hg`XYg`J cfZU`g`Y]b`K]`Xh]Yfj YfVch]b
8Yi hgW`UbX"

8]Y`Gi W`Y`bUW`XYf`YbhUi ZYbYb`@Ok]b`U`h`X]Y`8]g`_i gg]cb`i a
H]YfgW`i h`i bX`[Y`hYbXY` ; YgYhnY`bYi`YbhZUW`h" `A UfYYb`9ga Y]Yfz
@Y]hYf]b`XYg`H]Yf`Y]a g`6Yf`]b`i bX`ghY`j YfhfYhYbXY
; YgW`A`Zhgz0`fYf]b`XYg`H]YfgW`i hn] YfY]bg`Z0f`6Yf`]b`z`_f]h]g]Yfhz
XUgg]b`8Yi hgW`UbX`Y`XYf`Df]j UhdYfgcb`Yf`Ui Vh`]ghz`YI ch]gW`Y
H]YfY`ni`VYg]hnYb`z`X]Y`Y`Yf`k YXYf`Y]a]gW`bcW`Ufh[YfYW`h
df]j Uh[Y`U`hYb`k YfXYb`_0bbYb" `9ga Y]Yf`ZcfXYfh`Y]bY`XYi h`]W`Y
9]bgW`f`Ab`_i b[`XYf`< U`hi b[`YI ch]gW`Yf`< Ui gh]YfY"
6i bXYg`UbXk]fhgW`UZhga]b]ghYf`7Ya`^2 nXYa`]f`gW`A[h`Y]bY
Dcg]h]j`]ghY`Z0f`YI ch]gW`Y`H]YfY`j cfz`i a`XYb`j YfUbhk cfhi b[gj c`Yb
I a [Ub[`a]h`]\bYb`ni`fY[Y`b"

5i W`X]Y`H]YfgW`i hncf[Ub]gUh]cb`DYhU`ZcfXYfhj`cb`XYf
6i bXYgfY[]Yfi b[`Y]b`K]`Xh]Yfj YfVch" `DYhYf`< 0Z`_Yb`z: UW`fYZYfYbh
VY]`DYhUz`k Y]gh`XUfUi Z`]\b`z`XUgg]b`XYb`Y`hnhYb`X`YfYb`]a a Yf
k]YXYf` ; fc» _UhnYb`Ui g`Df]j Uh`U`hi b[Yb`i bX`N]f`_i gVYhf]YVYb
Ui g[YVfcW`Yb`g]bX" `Hfch`K Ufbi b[Yb`UVY`X]Y`Dc`]h`_`Yg
j Yfg`Ai a hz`X]Y`< U`hi b[`YI ch]gW`Yf`K]`Xh]YfY`ni`VYgW`f`Ab`_Yb" `@Ui h
< 0Z`_Yb`k `AfY`gY`Vgh`Y]bY`]b` ; YZUb[YbgW`UZh[YVcfYbY`@Ok]b
cXYf`Y]b`_Ughf]YfhYf`@Ok Y`Ai » Yfgh[YZ`A`f`]W`"

6fUbXYbVi f[`]gh`X]Y`df]j UhY`< U`hi b[`j`cb`@Ok Yb`gcf[Uf`Y[U`z`XU
XUg`@UbX`_Y]b` ; YZU`fh]Yf[YgYhn`U`h" `DYhU`ZcfXYfh`XU`Yf`Y]bY
J YfVchgfY[Y`i b[`Z0f`YI ch]gW`Y`K]`Xh]YfY`k]Y` ; fc» _UhnYb`z`5ZYb
i bX`GW`Ub[Yb`]b`Df]j Uh`UbX`i bX`]a`N]f`_i g" `BUX]bY`F`cbW`
5`UfW`b`z`F`YZYfYbh]b`Z0f`6i bXYgdc`]h`_`VY]`XYf
H]YfgW`i hncf[Ub]gUh]cb`J]Yf`DZchYb`z`VYhcb`h`z`XUgg`Yg`H]YfUfhYb
[]Vh`z`X]Y`b]W`h`Z0f`X]Y`df]j UhY`< U`hi b[`[Y]Y[]bYh`g]bX" `G]Y`k Ufbh`z
XUgg`X]Y`YbhUi ZYbY`@Ok]b`g]W`j Yfa`i h`]W`i bhYf`[fc» Ya`GhfYgg
VY]bXYhi bX`Y]bY` ; YZU`f`Z0f`X]Y`^2 ZYb`h]W`_Y]h`XUfghY`h"

⇒ a`Ubi Uf`UhhY`6i bXYg`UbXk]fhgW\UZnga]b]ghYf`7Ya`2 nXYa]f
Ub[Y_ØbX][hž`g]W\`ZØf`Y]bY`Dcg]hj`ghY`ZØf`<Ui gh]YfY`a]h
Yf`Ui VhYb`5fhYb`Y]bni gYhnYb`"8Ua]h`gc`Yb`H]YfYž`X]Y`b`d`f]j UhYb
<Ui g\U`hYb`b]W\hg`ni`gi W\Yb`\UVYbž`j cb`XYf`<U`hi b[
Ui g[YgW\`cggYb`k YfXYb`"8]YgY`5i ggU[Y`gh]Y»`YXcW\`Ui Z
I bj Yfgh`bXb]g`VY]: cfgW\Yfb`i bX`H]Yf\U`hYfbž`X]Y`XYa`A]b]ghYf
a Ub[Y`bXY: UW\`Ybbhb]ggY`b`XYf`H]Yf\U`hi b[`j`cb`9I`chYb
j cfk UfZYb`"8]Y`8]g_i gg]cb`nY][hž`k]Y`Xf]b[YbX`X]Y`Dc`h]_`UbXY`b
a i ggž`i a`X]Y`<U`hi b[`YI`ch]gW\Yf`H]YfY`ni`fY[Y`b`i bX`X]Y
G]W\Yf\Y]hj`cb`A YbgW\`i bX`H]Yf`ni`[Yk`À`f`Y]ghYb"

8YhU]`g

6Ygi W\Yb`G]Y`i bg`Ui Z.`a Y]b!VYf`]b`bYh