

8 Ub]Y`'B cVcU`YfbYbbh`bYi Yb`A]b]ghYf`ZØf
F Y[]Yfi b[`]b`9W UXcf

9W UXcfg`DfÄg]XYbh`8 Ub]Y`B cVcU`YfbYbbh`5fhi fc': Å`|`ni a
bYi Yb`A]b]ghYf`ZØf`F Y[]Yfi b[ži a `k]W h][Y
<YfUi gZcfXYfi b[Yb`Ubni [Y\Yb"

B Yi Y`9fbYbbi b[Yb`]b`XYf`YW UXcf]Ub]gW Yb
F Y[]Yfi b[.`5i gk]f_i b[Yb`Ui Z`X]Y`dc`h]gW Y
@UbXgW UZh

⊕`Y]bYa`YbhgW Y]XYbXYb`GW f]h`ni f`GhÄf_i b[`gY]bYf`F Y[]Yfi b[
\Uh`XYf`YW UXcf]Ub]gW Y`DfÄg]XYbh`8 Ub]Y`B cVcU`Ua`%*''5i [i gh
5fhi fc': Å`|`ni a`bYi Yb`A]b]ghYf`ZØf`F Y[]Yfi b[`YfbUbbh`8]YgY
9fbYbbi b[`Y\h`a]h] YfgW]YXYbYb`I a`VYgYhni b[Yb`]bbYf\U`V
gY]bYg`HYUa`g`Y]b\Yfž`k Ug`Ui Z`Y]bY`dfcU_h]j`Y`GhfUHy []Y`\]bk`Y]ghž
i a`X]Y`<YfUi gZcfXYfi b[Yb`XYg`@UbXYg`Ubni [Y\Yb"

DYfgcbY`Y`J YfÄbXYfi b[Yb`i bX`]fY
6YXYi hi b[

5fhi fc': Å`|`žXYf`ni j`cf`U`g'; YbYfU`gY`fYhÄf`XYf
J Yfk U`hi b[gVY\ØfXY`i bX`XYg`?UV]bYhng`Z b[]YfhYž`k]fX`bi b`X]Y
J YfUbhk`cfhi b[`ZØf`XUg`A]b]ghYf]i a`ZØf`F Y[]Yfi b[`fDc`h]_Ł
ØVYfbY\`a`Yb`"9f`hf]h`X]Y`B UW Zc`[Y`j`cb`A]W Y`Y`GYbg]`Ubž`XYf`]b
Y]bYf`UbXYfYb`F c`Y`]bbYf\U`V`XYf`F Y[]Yfi b[`V`Y]Vh`GYbg]`k]fX
U`g`8]fY`_hc`f`XYf`GhfUHy []gW Yb`; Y\Y]a`X]YbghY]b\Y]h
ni fØW__Y\fybž`k Ug`nY][hž`XUgg`gY]bY`9fZU\fi b[`]b`XYf
G]W Yf\Y]hg!`i bX`⊕Zcfa`Uh]cbgdc`h]_`k`Y]hYf\]b[]YgW`Ähnh`k]fX"

B Yi Y`; Yg]W hYf`ni f`: ØfXYfi b[`j`cb

⇒bHY [f]hÀh'i bX'6Y_Àa dZi b['j cb '? cffi dh]cb

8]Y'ÿbXYfi b[Yb']b' BcVcUg'HYUa 'n]Y'Yb'XUfUi Z'UVž'X]Y
Xf]b[YbXghYb'6YXØfZb]ggY'XYf'9W UXcf]UbYf 'ni 'UXfYgg]YfYb"' ⇒
XYf'bYi Yb'Fc''Y'k]fX': Å']i 'Yfk UfhYhž'ØVYf[fY]ZYbX'ni 'UfVY]hYbž
i a 'Y]bY'i a ZUggYbXY'GhfUH] []Y'ni f'6Y_Àa dZi b['XYf'?cffi dh]cb
i bX'ni f': ØfXYfi b['j cb'ØZYbh]WXYf'⇒bHY [f]hÀh'ni 'Ybhk]W_Y'b"'8]Y
'?ca a i b[_Uh]cb'XYf'DfÀg]XYbhgW UZh'VYhcbhž'XUgg'X]YgY
A U»bU\ a Yb' bchk YbX]['g]bXž'i a 'XUg'J YfhfUi Yb'XYf'6Øf[Yf']b'X]Y
FY []Yfi b['k]YXYf\Yfni ghY''Yb'i bX'X]Y'ØZYbh]WXYb
8]Ybgh'Y]ghi b[Yb'ni 'j YfVYggYfb"

8]Y' B UWZc` [Y'j cb '7mbh\]U'; Y'']VYfh

Ni XYa 'k]fX'7mbh\]U'; Y'']VYfh'X]Y' B UWZc` [Y'j cb': Å']i ']b'XYf
; YbYfU'gY_fYhÀfgW UZh'UbhfYhYb"' ; Y'']VYfh'VYhcbh']\fY'j cf\Yf][Y
9fZU\fi b[']b'XYf'5Vk]W_ i b['XYf'ghUUh]WXYb' i bhYfbY\ a Yb' i bX
k]fX'ZØf']\fY': Å\][_Y]h' [YgW Åhnhž' _ca d']n]YfhY
J Yfk U'hi b[gdfcnYggY'ni ''Y]hYb"' ⇒fY'bYi Y'Fc''Y' _ØbbhY
YbhgWY]XYbX'gY]bž'i a ']b'Y]bYa 'ni bY\ a YbX'\YfUi gZcfXYfbXYb
K]fhgW UZhg_]a U'HfUbgdUfYbn'g]WXYfni ghY''Yb"

9]b'6`]W_ 'Ui Z'X]Y' < YfUi gZcfXYfi b[Yb

8]Y'J YfÀbXYfi b[Yb']a ' ?UV]bYhj' cb'DfÀg]XYbh' BcVcU'gd]Y[Y'b
Y]b' i a ZUggYbXYfYg'H\Ya U'k]XYf. 'X]Y' Bchk YbX][_Y]h'ghUV]Yf' i bX
hfUbgdUfYbh'U[]YfYbXYf'FY []Yfi b[gghfi _hi fYbž']bgVYgcbXYfY']b
NY]hYbž']b'XYbYb'6Øf[Yf'XUg'J YfhfUi Yb']b'X]Y' ⇒gh]hi h]cbYb
j Yf']YfYb"'8]Y' bYi Yb' A]b]ghYf]Yb' _ØbbhYb'\Y'ZYbž']b'XYf
6Yj Ò_ Yfi b['Y]b'; YZØ\''j cb' < cZbi b['i bX': cfhgW f]h'ni
YfnYi [Ybž'gc''hYb'g]Y']\fY'5i Z[UVYb'YfZc` [fY]W' i a gYhnYb"

: Un]h

8]Y'9fbYbbi b['j cb'5fhi fc': Å']i 'U'g' A]b]ghYf'ZØf'FY []Yfi b[']gh
b]W'h'bi f'Y]b']bhYfbYf'DYfgcbU'k YWgY'ž'gcbXYfb'Y]b' _UfYf
⇒X]_Uhcf'ZØf'X]Y'F]W'hi b[ž'X]Y'X]Y'YW UXcf]Ub]gWY'FY []Yfi b[

i bhYf`DfÅg]XYbh`BcVcU`Y]bgWÅ`U[Yb`a ÖW`hY" `b`Y]bYf`NY]hž`X]Y
j cb`k]fhgWÅUZh]WÅYb`i bX`gcn]U`Yb`<YfUi gZcfXYfi b[Yb`[YdfÅ[h
]ghž`_ÖbbhYb`X]YgY`JYfÅbXYfi b[Yb`YbhgWÅY]XYbX`gY]bž`i a`XUg
JYfhfUi Yb`XYf`6Øf[Yf`ni fØW`ni [Yk]bbYb`i bX`X]Y`Xf]b[YbX
VYbÖh][hYb`FYZcfa Yb`ni `]b]h]YfYb"

8YhU]`g

6Ygi WÅYb`G]Y`i bg`Ui Z.`b!U["XY