

7Y`g]i g'gU[ hž'XUgg'Yg'a Y\ f'NY]h'VfUi Wk hž  
i a 'X]Y': ]bUbn`U[ Y'k ]YXYf\Yfni ghY``Yb

⇒ a 'b hYfYggY'i bgYfYf'; Ya Y]bgWkUZh'ni '\UbXY`bž'V`Y]Vh  
i bgYfY'Df]cf]h`hž'i bX'k ]f'k YfXYb'k Y]hYf\]b'fi bX'i a 'X]Y'I \f  
UfVY]hYb ž'gU[ hY'7Y`g]i g'8Ug'I bhYfbY\ a Yb'gU[ hYž'Yg  
i bhYf\U'hY'Y]bYb'cZZYbYb'8]U`c[ 'a ]h'5i Zg]Wk hgVY\ŎfXYb'i bX  
6YUa hYb'ŎVYf'XYb'5i gnU\`i b[ gghcdd'7Y`g]i g'\Uh'j cf'Y]bYf  
K cWkY'5V\YVi b[ Yb'Ui Z'gY]bYf'D`UhhZcfa 'k Y[ Yb'Y]bYf  
gWk k`ÅWkYbXYb'@]ei ]X]h`h`g\_f]gY'Y]b[ YZcfYb"›>hnh'\Uh'XUg  
?fmdhc!?'fYX]hbYhmk Yf\_`Yf\_`Åfhž'XUgg'Yg'a Y\ f'NY]h'VfUi Wk hž  
i a 'gY]bY': ]bUbn`U[ Y'k ]YXYf\Yfni ghY``Yb"› K ]f'a ŎWk hYbž  
XUgg'i bgYfY'7ca a i b]hm'k Y]» ž'XUgg'i bgYf'N]Y`k Y]hYf\]b  
XUf]b`VYghY\hž'i bgYfY'@]ei ]X]h`h'i bX'i bgYfYb'6Yhf]YV'ni  
ghUV]`]g]YfYb"›8]YgYf'DfcnYgg'k ]fX'Y]b[ Y'NY]h'i]b'5bgd'fi Wk  
bY\ a Yb ž'gU[ hY'XYf'Ub[ YgWk`U[ YbY'?fYX]h[ YVYf'`b'U  
V`c[ [ Yb'Ua 'A cbhU[ "›7Y`g]i g' / Ua d^Y``]d/

- a' b hYfYggY'i bgYfYf'; Ya Y]bgWk UZh'ni '\UbXY'bž'V'Y]Vh i bgYfY'Df]cf]hÀhž'i bX'k ]f'k YfXYb'k Y]hYf\]b'fi bX'i a'X]Y l \f'UfVY]hYb ž'gU[ hY'7Y'g]i g
- 8 Ug'l bhYfbY\ a Yb'gU[ hYž'Yg'i bhYf\U'hY'Y]bYb'cZYbYb 8]U'c[ 'a ]h'5i Zg]Wk hgVY\ ÒfXYb'i bX'6YUa hYb'ØVYf'XYb 5i gnU\ 'i b[ gg h c d d

7Y'g]i g'\Uh]j cf'Y]bYf'K cWk Y'5V\YVi b[ Yb'Ui ZgY]bYf'D'UhhZcfa k Y[ Yb'Y]bYf'gWk ÀWk YbXYb'@]ei ]X]hÀhg\_f]gY'Y]b[ YZfcfYb" 'š hnh \Uh'XUg'? fmdhc!?'fYX]hbYhnk Yf\_'Yf\_'Àfhž'XUgg'Yg'a Y\ f'NY]h VfUi Wk hž'i a' gY]bY': ]bUb n'U[ Y'k ]YXYf\Yfni ghY''Yb"

K ]f'a ÒWk hYbž'XUgg'i bgYfY'7ca a i b]hmik Y]ž'XUgg'i bgYf'N]Y' k Y]hYf\]b'XUf]b'VYghY'hž'i bgYfY '@]ei ]X]hÀh'i bX'i bgYfYb'6Yhf]YV ni 'ghUV]'g]YfYb" '8]YgYf'Dfc nYgg'k ]fX'Y]b][ Y'NY]h]b'5bgdfi Wk bY\ a Yb ž'gU[ hY'XYf'Ub[ YgWk'U[ YbY'?'fYX]h[ YVYf']b'U'V'c[ [ Yb Ua 'A cbhU[ "'

7Y'g]i g'gU[ hYž'Yg'ghY\Y']b'cZYbYf'?ca a i b]\_Uh]cb'a ]h 5i Zg]Wk hgVY\ ÒfXYb'i bX'6YUa hYb'VYnØ[ 'Wk'gY]bYf'9bhgWk Y]Xi b[ ž 5V\YVi b[ Ybž'HUi gWk] cf[ Àb[ Y'i bX', VYfhfU[ i b[ Yb'nk ]gWk Yb 6Ybi hnYf'\_cbhYb'ni 'i bhYfVfYWk Yb"

8 Ug'l bhYfbY\ a Yb'VY[ fØbXYhY'X]Y'5i ggYhni b[ 'a ]h' Yl hfYa Yb A Uf\_hVYX]b[ i b[ Yb "'9g'\Uh'Ui Wk'Hk ]hYf'GdUWg'i bX'5g\_'A Y 5bm\]b[ !G]hni b[ Yb'Ub[ Y\U'hYbž'XUa ]h'Yg'g]Wk'Ui Z'UbXYfY UbghY\YbXY'5b[ Y'Y[ Yb\Y]hYb'\_cbnYbhf]YfYb'\_Ubb"

a' b hYfYggY'i bgYfYf'; Ya Y]bgWk UZh'ni '\UbXY'bž'V'Y]Vh'i bgYfY Df]cf]hÀhž'i bX'k ]f'k YfXYb'k Y]hYf\]b'fi bX'i a'X]Y l \f'UfVY]hYb ž'gU[ hY'7Y'g]i g"

7Y`g]i g[ YbYf]Yfh! a gUhn`fi bX`XUa ]h`9fhfU[ `Z0f`gY]bY`Bi hnYfŁ  
Xi fW`K Y]hYfj YfdZ`AbXi b[ `?i bXYbY]b`U[ Yb"5VYf`nYbhfU`g]YfhY  
?fYX]h[ YVYf`k ]Y`7Y`g]i g`\_0bbYb`[ Ynk i b[ Yb`gY]bž`\fY  
j YfgW]YXYbYb`Dcg]h]cbYb`ni j Yf`UggYbž`k Ybb  
5i gnU\`i b[ gUbhfA[ Y`]\fY`]ei ]XYb`FYgYfj Yb`0VYfghY][ Yb`

9]bY`@]ei ]X]h`hg\_f]gY`k ]fX`[ YhfU[ Ybž`k Ybb`X]Y`Xi fW`X]YgY  
5i ggh]Y[ Y[ YbYf]YfhYb`J Yfa 0[ Yb`gk YfhY`]a a Yf`bcW`b]W]h`X]Y  
BUW`ZfU[ Y`bUW`5V\YVi b[ Yb`XYW\_Yb"9]b][ Y`7Y`g]i g!6Ybi hnYf  
VYZ0fW`hYbž`XUgg`]\fY`9]bnU\`i b[ Yb`ni gUa a Yb`a ]h`XYa `?Ud]hU`  
j cb`7Y`g]i g`U`g`D`UhhZcfa `j Yf`cfYb`[ Y\Yb`\_0bbhYb`Zi b\_h]cb]Yfh  
gY]bY`Y][ YbY`@]ei ]XU]cb`UVni k Y\fYb"

8]Y`@]ei ]XU]cb`k Uf`Y]b`DfcV`Ya `]b`U`Yb`A Af`hYbž`Y]bgW`]Y»`]W`  
?fmdhc ž`gU[ hY`: YfbUbXc`A Ufh]bYnž`<YUX`cZ`5a Yf]WUg`VY]`XYf  
8][ ]hU`!5ggYh!D`UhhZcfa `CG@`

I a`gY]bY`:]bUbn]Yfi b[ ga 0[ `]W`\_Y]hYb`ni `Yf`\_i bXYbž`\Uh`7Y`g]i g  
6Yf]W]hYb`ni Zc`[ Y`YhnhY`K cW`Y`XYb`6Ub\_Yb[ ]][ UbhYb`7]h][ fci d  
i bX`X]Y`5bk U`hg\_Ubn`Y]`5\_]b`; i a d`GhfUi gg`<Ui Yf`/` : Y`X  
VYUi ZhfU[ h`

8 Ug`0b[ ghY`7\Ucg`Ui ZXYb`?fmdhck A\fi b[ ga Af`hYb`k i fXY  
Xi fW`X]Y`5\_hYi fY`XYf`6fUbW`Yž`X]Y`a ]h`gc`W`Yb`Z]bUbn]Y`Yb  
GW`k ]Yf][ \_Y]hYb`\_cbZfcbh]Yfh]g]bXž`bcW`j YfgW`AfZn`8]Y`6Ygcf[ b]g  
XYf`5b`Y[ Yf`0ghY`g]W`Ui Zž`U`g`7Y`g]i g`Ua `%&"`ž`b]`5V\YVi b[ Yb  
i bX`\_ VYfk Y]gi b[ Yb`Ui ggYhnhYž`[ YZc`[ h]`cb`XYf`<YX[ YZcbXg!  
:]fa U`H\fYY`5ffck g`7Ud]hU`ž`X]Y`j cf`Y]bYf`a 0[ `]W`Yb`0gc`j Ybn  
ghUbX"

6UVY`:`]bUbW`gW`cgg`g]W`XYb`Hi fVi `YbnYb`Ub`Ui ggYhnYb  
5V\YVi b[ Yb`Ua `: fY]hU[ `i bhYf`6Yfi Zi b[ `Ui Z` i b[ Yk 0\`b`]W`Yb  
@]ei ]X]h`hgXfi W\_ "``

8]Y`DfcV`Ya Y`VY]`7Y`g]i g`i bX`H\fYY`5ffck g`7Ud]hU`k i fXYb  
hY]`k Y]gY`Xi fW`XUg`9b[ U[ Ya Ybh`]b`@]Xc`GhU\_]b[ `9h\Yf`fgh9H<Ł  
j Yfi fgUW`hž`Y]bYa `9fgUhn!Hc\_Yb`Z0f`9h\Yf`f9H<Łž`XUg`]a `GhU\_]b[ !  
Dfchc\_c``@]Xc`:]bUbW`Y]b[ YgW`cggYb`]gh`

Gh9H<`k i fXY`a Y]ghYbg`U`g`g]WXYfYg; i h`Ub[ YgY\Yb/YZZY\_hj`%.%  
a ]h`9H<`[ Y\_cddY`h`i bX`Xi fW`9H<`i bhYfgh0hnhz`X]Y`]bbYf\U`V`j cb  
9h\YfYi a g`6YUWcb`UV[ YghYW\_h`]gh`7\U]b"5VYf`Y]b`Ni ghfca`j cb  
9H<!5V\YVi b[ Yb`Ui g`XYa`X`YnYbhfU`]g]YfhYb`< UbXY`gdfc`hc\_c`  
7i fj Y`\Uh`Yg`gW`k ]Yf][ Yf`[ Ya UW`h`z`gh9H<`ni`h`Ui gW`Yb`z`k Ug`ni  
gY]bYa`K YfhZ0\fhZU`Yb`\*`i`i`bhYf`XYa`BYbbk Yfh"

5i Z`YXYb`i: U`\UVYb`a ]bXYghYbg`Z0bZ`ghUUh`]WXY  
5i Zg]W`hgVY\0fXYb`j cffUb[ ][ `9fa ]h`i b[ Yb`ni`XYb`5\_hj ]h`hYb  
j cb`7Y`g]i g`Y]b[ Y`Y]hYh`z`i a`g]WXYfni ghY`Yb`z`XUgg`g]W`gc`WXY  
JcfZ`A`Y`b]W`h`k ]YXYf\c`Yb"

8]Yg`]gh`b]W`h`XUg`YfghY`A U`z`XUgg`7Y`g]i g`fY[ i`U`hcf]gWXY  
5i Za Yf\_gUa`\_Y]h`YffY[ h``a`GYdhYa VYf`&\$&%`Yb`hgUb`XhYb`X]Y  
5i Zg]W`hgVY\0fXYb`j cb`5`UVUa U`z`BYk`>fgYmi bX`HYI Ug`X]Y  
: ]fa U`5Va U\bi b[ Yb`i bX`5Va U\bi b[ Yb`5`YfX]b[ g`Vch`Yg  
b]W`h`fY[ ]ghf]YfhY`K Yfhd`Ud]YfY`f] Yfn]bg`]WXY`?fmdhc\_c`bhYb`z`i bhYf  
J Yfghc`»`[ Y[ Yb`ghUUh`]WXYg`F YW`h`Ub`i bX`[ UV`b]W`h`[ Yb0[ YbX  
`bZcfa`Uh]cbYb`XUf0VYf`z`k Ug`Yg`a ]h`\fYb`9]b`U[ Yb`hUh"

---

..

---

8Yf`6Y]hfU[ `7Y`g]i g`gU[ h`z`XUgg`Yg`a Y`f`NY]h`VfUi W`h`z`i a`X]Y  
: ]bUb`n`U[ Y`k ]YXYf\Yfni ghY`Yb`i]gh`\_Y]bY`Z]bUb`n]Y`Y`6YfUhi b[ "

8YhU]`g

6Ygi WXYb`G]Y`i bg`Ui Z.`\_fmdhc!bYk`g"Uh