

# 8 ]Y`DfY]gj Yf`Y]\i b[ `ghY`h`\_i fn`j cf`XYa K YbXYdi b\_h

ð`XYb`j Yf[ Ub[ YbYb`ð\`fYb`k ÅfY`X]YgY`9bhgWXY]Xi b[ `VY]  
 Y]bYf`; c`XYb`; `cVY!; U`U`a` ]hi bY]b[ YgWfÅb`hYa  
 K c`k c`Yb`ni f`?Ybbhb]g[ Ybca`a Yb`k cfXYb.`5a  
 GcbbhU[ UVYbX`[ Yk Ubb`7\`cÅ`N\Uc`b]W`h`bi f`a` ]h]\fYa  
 VYfØ\`fYbXYb`Gcn]U`XfUa U` Bca UX`UbX` `XYb`; c`XYb`; `cVY  
 ]b`XYf`?UhY[ cf]Y` 6YghYg: ]`a XfUa U` `XYg`?Øb][ g`G]Y`k i fXY  
 Ui W`ni f`VYghYb`FY[ ]ggYi f]b[ Yk Å`h`Gc`i b[ `Ui V`]W`Yg  
 Ui W`\_]b[ Yb`a U[ ž`X]Y`W`]bYg]gWXY: ]`a Ya UW`Yf]b`]gh`Yfgh  
 X]Y`nk Y]hY: fUi` ]b`XYf`Ub[ Yb`; YgW]W`hY`X]YgYf  
 5i gnY]W`bi b[ ž`X]Y`X]YgY`5i gnY]W`bi b[ `Yf\U`hYb`\Uh`8 Ug  
 C ZYbg]W`h`]W`Y`]gh`\]Yf`fk ]Y`bcW`VY`XYb`C gWUfgŁ`Y]bY  
 GYbgUh]cb.`J cf`N\Uc`[ Y`Ub[ `bi f`6UfVfU`GhfY]gUbX`a` ]h  
 M`bh` "I bX`XUg`k Uf`j cf` \*`ð\`fYb"J]XYc`FB8!  
 J]XYck YW`gY`bUW` / Ua d^Y`d/

ð`XYb`j Yf[ Ub[ YbYb`ð\`fYb`k ÅfY`X]YgY`9bhgWXY]Xi b[ `VY]Y]bYf  
 ; c`XYb`; `cVY!; U`U`a` ]hi bY]b[ YgWfÅb`hYa` K c`k c`Yb`ni f  
 ?Ybbhb]g[ Ybca`a Yb`k cfXYb.`5a` GcbbhU[ UVYbX`[ Yk Ubb`7\`cÅ  
 N\Uc`b]W`h`bi f`a` ]h]\fYa` VYfØ\`fYbXYb`Gcn]U`XfUa U  
 Bca UX`UbX` `XYb`; c`XYb`; `cVY`]b`XYf`?UhY[ cf]Y` 6YghYg  
 : ]`a XfUa U` `XYg`?Øb][ g`G]Y`k i fXY`Ui W`ni f`VYghYb`FY[ ]ggYi f]b  
 [ Yk Å`h`

`Gc`i b[ `Ui V`]W`Yg`Ui W`\_]b[ Yb`a U[ ž`X]Y`W`]bYg]gWXY  
 : ]`a Ya UW`Yf]b`]gh`Yfgh`X]Y`nk Y]hY: fUi` ]b`XYf`Ub[ Yb`; YgW]W`hY  
 X]YgYf`5i gnY]W`bi b[ ž`X]Y`X]YgY`5i gnY]W`bi b[ `Yf\U`hYb`\Uh`8 Ug  
 C ZYbg]W`h`]W`Y`]gh`\]Yf`fk ]Y`bcW`VY`XYb`C gWUfgŁ`Y]bY`GYbgUh]cb.  
 J cf`N\Uc`[ Y`Ub[ `bi f`6UfVfU`GhfY]gUbX`a` ]h` M`bh` "I bX`XUg`k Uf  
 j cf` \*`ð\`fYb"

J ]XYc

F B 8!J ]XYc k YW gY`bUW X`Yb`; c`XYb`; `cVYg.`<c`mk ccX`gdf]W h  
bUW X`Yb`5k UfXg`XUfØVYf

`8]Y`; c`XYb`; `cVY`5k UfXg`k i fXYb`Ua`A cbhU[ UVYbX`j Yf`Y\Yb"  
9g[ ]Vh`9]bgW`Åhni b[ Yb`XYf`<c`mk ccX!9l dYfh]b`B UhUgW`U  
K ]hha Ubb`ja`F B 8!J ]XYc!Gk ]hW`" |`F B 8

⇒a`? fYi nZYi Yf`XYf`? f]h]\_

`6Yk Y[ h]g]W`XYf`; c`XYb`; `cVYž`XYf`bUW X`Yb`C gWUfg`U`g  
nk Y]hk ]W h[ ghYf`:]a`dfY]g[ Y\UbXY`h`k ]fX3`5i Z`YXYb`U`k Uf  
X]Yg`U`Yg`UbXYfY`U`g`Y]b`bcfa`U`Yg`X\`f`ZØf`X]Y`cfY][ b`DfYgg  
5ggcW]Uh]cb`]b`<c`mk ccX`l bX`XUg`U[ `b]W`h`bi`f`Ub`XYb  
?ca`a`i`b]\_Uh]cbgdfcV`Ya`Yb`VY]`XYf`+,`"; `cVY`G\`ck`ž`X]Y  
Ui`Z[ fi`bX`j`cb`7cfc`bU`j`]fhi`Y`c`f[ Ub]g]Yfh`k`i`fXY`i`bX`VY]`XYf`X]Y  
a`Y]ghYb`GhUfg`Y]b[ YghY`h`k`UfYb`f`b]`A`i`ffUm]b`Y]bYa`Vi`bhYb  
<Uk`U]]\Ya`X`ini`a`6Y]gd]Y`Ui`g`h`f`cd]gW`Yb`; Y[ YbXYb3`Ł`

`@Ui`h`Y]bYa`6Yf]W`h`XYf`@cg`5b[ Y`Yg`H]a`Yg[ Yf]Yh`X]Y`; fi`ddY  
j`cb`,`+`Ui`g`Å`bX]gW`Yb`æi`fbU`]ghYb`]b`<c`mk ccX`\_i`fn`j`cf`XYf  
DfY]gj`Yf`Y]\i`b[ ]bg`?fYi`nZYi`Yf.`K`Y]h`Yb`h`Z`f`b`h`j`cb`U`Yb  
A`h[ ]YXYfb`XYf`<c`mk ccX`cfY][ b`DfYgg`5ggcW]Uh]cb`fk`D5Ł`g]bX  
æi`fbU`]ghYb`ž`\_Y]bY`Y]bn][ Y`gW`k`Ufn`Y`DYfg`cb`l`bhYf`]\bYb`k`]fX`XYf  
J`YfV`UbX`j`YfX`Å`W`h[ ]h`ž`j`cb[ ]fc»`nØ[ ]Yb`9]b`UXi`b[ Yb`VYY]bZi`ggh  
ni`k`YfXYb`"

`8Yf`9`YZU`bh`k`Uf`U`gc`ja`F`Ui`a`ž`i`bX`X]Y`VY]XYb`A`cXYfUhc`fYb  
H]bU`Ymi`bX`5a`m`DcY\`Yfž`Y]bY`]b`BYk`M`f`\_i`bX`X]Y`UbXYfY`]b  
@cg`5b[ Y`Ygž`nc[ Yb`Yg`j`cfž`gY]bY`Ghc»`nÅ`bY`gc`Zc`fh`ni`[ fY]ZYb.  
9]b][ Y`XYf`A`h[ ]YXYf`\_Ø`b`h`Yb`gc[ Uf`; Y]ghYf`gY]bž`gU[ hY`Ym`9g  
[ ]Vh`Y]b`; YfØW`h`ž`XUgg`XUg`XYi`hgW`Y`ž`fma`]h[ ]YX`bi`f`Y]bY`K`i`fgh  
]ghž`Ui`Z`X]Y`Ya`UbX`Y]b`; Yg]W`h[ Ya`U`h`\Uh`"

B`Y`h`Z`I`l`j`c`f`b`Y`V`Y]`X`Y`f`D`f`Y]`g`j`Y`f`Y]\`i`b`[

''9]b'; YgUbXhYf'XYg'J YfY]bg'gWk cf'j U[ Y'XYb'FYZcfa k ]''Yb'Ua  
GcbbhU[ ''9]b][ Y'žk ]Y'đbY': cbXUž'X]Y'ZØf']\f'@VYVbgk Yf'\_[ YY\fh  
k i fXYž'\UVYb'g]W'cZZYb'a ]h'XYa '9'YbX'VYZUggh'đ'Ni '\_i bZ'ia i gg  
X]Y': ]a '!i bX': YfbgY\]bXi ghf]Y'a Y\f'XUfUi Z'UW'hYbž'k Yb'g]Y  
][ bcf]Yfh'GUW'U'6Ufcb'7c\Ybž'nk Y]ZUW'Yf'DfY]ghfÅ[ Yf'U'g  
<Ui dhXUfghY''Yf'i bX'FY[ ]ggYi f'XYf'VY]»YbXYb'GUh]fY' 6cfUh  
5bgW'i gg'A cj ]YZ]'a ž'XUb\_hY'gY'Vgh[ YZÅ''][ 'XYf' \_ca d'Yhh  
k Y]»Yb'J YfY]b][ i b[ ''K Ybb'b]W'h'U''Yg'ZU'gW' ]ghž'ghY\Yb'X]Y  
; c'XYb'; 'cVYg'j cf'Y]bYa 'YW'hYb'K YbXYdi b\_hž'k Ybb'g]Y'\fY  
6YXYi hi b[ 'VY\U'hYb'k c''Yb"

''9g'[ UV'Y]b][ Y'\_UfY'; Yk ]bbYf.'8]Y'j ]Y''X]g\_i h]YfhY'Vf]h]gW'Y  
?Øb][ gZUa ]]Y' H\Y'7fck b '[ Yk Ubb'j ]Yf'DfY]gY''; 'cVYg'ZØf'X]Y  
BYhZ]!DfcXi \_h]cb'k UfYb'X]Y'VYghYb'8fUa UgYf]Ybž'æg\C'7cbbcf  
U'g'Df]bW'7\Uf'Ygž'9a a U'7cff]b'U'g'Df]bW'gg'8]UbU'i bX'; ]''Ub  
5bXYfgcb'U'g'A Uf[ UfYh"

''BYhZ]I '\UhhY'(&'Bca ]b]Yfi b[ Yb'[ YgUa a Y'hi bX'j ]Y'Y'Hcd!  
: YfbgY\ \_UhY[ cf]Yb'[ Yk cbbYb' 'XUfi bhYf' E i YYb g'; Ua V]h 'i bX  
H\Y'Hf]U'cZ'h\Y'7\]WU[ c' + ''Bi f' Bca UX'UbX 'k ]XYfghUbX'XYf  
, VYf'Y[ Yb\Y]hj cb'GhfYUa ]b[ !8]YbghYb''9hk Ug'\Uh'Ui W  
VY[ cbbYbž'XUg'?fÅZhj Yf\Å'hb]g'nk ]gW'Yb '@Y]bk UbX'i bX  
6]XgW]fa 'ni 'j YfgW]YVYb''gh'XUg'bi f'gcž'k Y]'j ]Y'Y'?]bcg'Ui Z  
XYf[ Ubnyb'K Y'h'bcW' [ YgW'cggYb'g]bX3

''8Yf'k U\fgW'Y]b'W'VYk Y[ YbXghY'A ca Ybh'XYg'5VYbXg.'8]Y  
K ]hk Y'XYg'GW'Ui gd]Y'Yfg'7\UXk ]W'\_6cgYa Ubž'XYf''YmhYg'đ\Uf'Ub  
?fYVg[ YghcfVYb'k Ufž'U\_nYdh]YfhY'gY]bYb'; c'XYb'; 'cVY'i bhYf  
HfÅbYb'' K ]f'a ØggYb'X]YgYb'A ca Ybh'bi hnYbž'i a 'X]Y'Yb][ Yb'ni  
Y\Ybž'X]Y'k ]f''YVYb ž'gU[ hY'HUmc'f'G]a cbY '@YXk UfX''6cgYa Ub  
k i fXY'dcgh\i a 'U'g'VYghYf'GW'Ui gd]Y'Yf']b'A U'F U]bYmg'6'UW\_  
6chca !8fUa U'Ui g[ YnY]W'bYh"

## 8 ]Y'8 Yi hgW'Yb '[ Y\Yb'a ]h''YYfYb' < ÅbXYb k Y[

''i bX'k ]Y'\UVYb'g]W'X]Y'XYi hgW'Yb'?UbX]XUhYb'[ YgW'U[ Yb3  
A Uf]U'GW'fUXYfg'GYf]Y' H\Y'l bcfh\cXcl 'YfgW]Yb'[ YbUi gc''YYf  
k ]Y'<Y'YbU'NYb[ Y'ž'X]Y'ZØf']\fY'k Ygh]W'Yb' BYk g'Zfca 'h\Y  
K cf'X 'bca ]b]Yfh'k i fXY''8Yf'Nk ÒZÅ\][ Y'\UhhY'X]Y'BUW'h]b  
6Yf']b'j YfvfUW'h'i bX'a i gghY'æX]Y': cghYf']a '8fUa U' H\Y  
A Ui fYhub]Ub 'k Y]W'Yb"

''NYb[ Y'k ]fX'XUfØVYf'\]bk Y[ \_ca a Yb'\_ØbbYb.'9fghYbg'\Uh'g]Y  
Ua 'A cbhU[ 'X]Y'GW'i 'Y'j Yf'UggYbž'i bX'nk Y]hYbg'k YfXYb'X]Y' C gWUf!

Bca ]b]Yfi b[ Yb`A ]hhY`X]YgYg`A cbUhg`VY\_Ubbh`[ Y[ YVYb``9g  
\_ÒbbhY`[ i h`gY]bž`XUgg`g]Y`g]W`9bXY`5df`Ui Z`X]Y`bÀW`ghY  
BUW`hgW`]W`h`a`CgWUf[ U`U`j cfVYfY]hYb`a`i`gg"

=bgd]f]Yfh`j`ca`@J`N`B`Y`k`gh]W`\_`Y`f`!`2`Ni`a`\_`ca`d`Y`hh`Y`b`5`fh]\_`Y`

8YhU]`g

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