

## 8][]hU`Y`J]g]cbYb`ZØf`X]Y`8cbUi ghUXh. 5`YlUbXYf`K YmfcghU`]a :: c\_i g°

5`YI UbXYf'K YmfcghUž'±H!7cbgi `hUbh'i bX'6Yn]f\_gfUh'XYf 8cbUi ghUXhž'gYhnh'g]W\'ZØf'8][]hU`]g]Yfi b['i bX'gcn]U`Y ; YfYW\h][ Y]h'Y]b"



8 c b Ui ghUX hž ² ghY ffY]W '! '\ TXY f 8 c b Ui ghUX h'hi h'g]W 'Yhk Ug.

5 YI Ub XY f K YmfcghUž Y]b 'Yb [ U[ ]YfhY f \ H! 7 c b gi `hUb h'i b X

6 Yn]f\_gfUhž ghY \ h']a 'A ]hhY `di b\_h" 5 i Z[ Yk UW gYb ']b 'X]Y gYa 'HY]`

K ]Y b gž \_ Ua 'Y f 'V Y f Y]hg 'a ]h gY W g '\ J\ f Y b '\ ]Y f \ Yf i b X \ Uh 'g]W \
gY]h\ Y f a ]h < Y f n'i b X 'GYY `Y 'ZØ f 'X]Y '6 Y `Ub [ Y 'XY f

; Ya Y]b XY V Ø f [ Yf.]b b Y b 'Y]b [ Y gY hnh" 'GY]b 'dc `]h]g W Y g '9 b [ U[ Ya Y b h k i f XY 'Xi f W 'XY b '\ J\ ]n U! G\_Ub X U ` 'Ub [ Y ghc » Y b ž XY f 'X Ug 'J Y f h f Ui Y b ']b \
X]Y 'Dc `]h]\_ 'Y f g W Ø hhY f h Y " 'Gc 'h f Uh 'Y f 'XY f 'dc `]h]g W Y b '6 Y k Y [ i b [ \ J B C G 'i b X 'gd À h Y f 'X Y b 'B 9 C G 'V Y] 'i b X 'j Y f gh f \_h 'b i b 'X Y b \
Gc n]U`Ui g g W i g g ž 'k c 'Y f 'g] W 'ZØ f 'Y]b Y b 'a c X Y f b Y b '' b Y c g "Y i 'V Y f] W h Y h''

K YmfcghU'\Uh'\_`UfY'N]Y`Y'j cf'5i [Yb.'9f'a ÒW\hY'X]Y'8cbUi ghUXh

 $Z\emptyset$ f''1 b[Y'I bhYfbY\a Yf.]bbYb'UhhfU\_h]j'a UW\Yb'i bX']\bYb'bYi Y DYfgdY\_h]j Yb'V]YhYb"'8][]hU`]g]Yfi b[ $\check{z}$ 'gcn]U`Y'; YfYW\h][\_Y]h'i bX k]fhgW\UZh`]W\Y'=bcj Uh]cb'ghY\Yb'XUVY]'[Ubn'cVYb'Ui Z'gY]bYf 5[YbXU"'8]YgY'H\Ya Yb'g]bX'b]W\h'bi f'Z\Øf']\b'dYfg\Ob`]W\'k]W\h][ $\check{z}$ 'gcbXYfb'Ui W\'Z\Øf'j]Y`Y'UbXYfY $\check{z}$ 'X]Y']b'XYf'FY[]cb'`YVYb'i bX'j cb XYb'J Yf\AbXYfi b[Yb'dfcZ]h]YfYb'k c``Yb"'K YmfcghU'g]Y\h']b'XYf 8][]hU`]g]Yfi b['Y]bYb'[fc>Yb'JcfhY]` $\check{z}$ 'i a 'A YbgW\Yb'ni 'j YfbYhnYb i bX'gck c\``k]fhgW\UZh`]W\Y'U`g'Ui W\'[YgY``gW\UZh`]W\Y': cfhgW\f]hhYni 'Yfn]Y`Yb"

## $8Yf'9]bZ'igg'XYg'=V]nU!G_UbXU'g$

8 Yf = V]nU!G\_UbXU``\Uh'b]W\h'bi f'X]Y 'ÒghYffY]W\]gW\Y'6Yj Ò`\_Yfi b[dc`Uf]g]Yfhž'gcbXYfb'Ui W\'XUg'J YfhfUi Yb']b'ÒZZYbh`]W\Y
= bgh]hi h]cbYb'ghUf\_'Ub[Y\_fUhnh'' = b'X]YgYa '?cbhYl h'fi ZYb'j ]Y`Yž
XUfi bhYf'Ui W\'i bhYfbY\a YbgVYfUhi b[!\U[a Ubb''Uhž'XUni
Ui Zž'ØVYf'XYb'HY``YffUbX'\]bUi gni gY\Yb'i bX'X]Y'K YfhY'5bghUbXž
A cfU`'i bX'J YfUbhk cfhi b['bYi 'ni 'XYZ]b]YfYb'''9g'k ]fX'j YfghÀf\_h
bUW\'A Ò[`]W\\_Y]hYb'[Ygi W\hž'k]Y'a Ub'X]Y'6Øf[Yf.]bbYb']b
9bhgW\Y]Xi b[gdfcnYggY'Y]bVYn]Y\Yb'\_Ubbž'i a 'Y]bY'bYi Y'?i `hi f
XYg'A ]hY]bUbXYfg'ni 'ZÒfXYfb''

8]Y'H\Ya Yb'; YfYW\h][\_Y]h'i bX'DUfh]n]dUh]cb'g]bX'nYbhfU`]b'XYf
5[YbXU'&\$' \$\(\frac{z}{z}\)X]Y'XUg'@Y]ha ch]j @YUj Y'bc'cbY'VY\]bX 'j YfZc`[h''
9g'[Y\h'i a 'X]Y'U\_h]j Y'A ]h[YghU`hi b['XYf'; YgY``gW\UZh'i bX'i a
XYb'Ni [Ub['ni 'FYW\hYb'ZØf'U``Y'''A Y\f'HY]`\UVY'i bX'A ]hgdfUW\Y
g]bX'i bYf`\(\frac{A}{g}\)g`]W\(\frac{z}{z}\)i a 'Y]b'j YfhfUi Ybgj c``Yg'J Yf\\(\frac{A}{z}\)hb]g'nk ]gW\Yb
XYf'\(\frac{A}{z}\)j O`\_Yfi b['i bX'XYb'\(\phi\)ph]hi h]cbYb'\Yfni ghY``Yb'''8 UVY]'ghY\\h
Ui W\(\frac{A}{z}\)Yfn'k YfXYb'gc``hYb\(\frac{z}{z}\)gg'\(\frac{A}{z}\)fb'U\_h]j ']b'dc`]h]gW\(\frac{A}{z}\)DfcnYggY
Y]b[YVi bXYb'k YfXYb'a \(\text{\te

## 9]bYJ]g]cbZØfX]Y8cbUighUXh

 $K YW gY b k ]f XY b 6 YW k ]b_Y b b X k Y f ZY b k ]f Y ]b Y b '[Y b U i Y f Y b b Y w Y f U i Z X ]Y ' < Y f U i g Z c f XY f i b [Y b z X ]Y 'g] W K Y m f c g h U i b X$ 

; `Y]W [Yg]bbhY ghY``Yb a ØggYb" 8]Y Bchk YbX][\_Y]hž i b[Y A YbgW Yb i bX I bhYfbY\a Yf.]bbYb ini a ch]j ]YfYbž ]gh XfÀb[YbX"; YfUXY ]b NY]hYbž ]b XYbYb [`cVU`Y ?cbnYfbY i bX : ]bUbnnYbhfYbcZh a ]h ?f]h]\_ '\_cbZfcbh]Yfh g]bXž ]gh Yg i a gc k ]W h][Yfž `c\_U`Y b]h]Uh]j Yb ini 'ZÒfXYfbž X]Y Y]b [YfYW hYfYg i bX bUW \U`h][YfYg K ]fhgW UZhga cXY``i bhYfghØhnYb" 8]Yg ]gh Y]b 'GW f]hh ]b 'F ]W hi b[Y]bYf K ]f!; YgY``gW UZh ž X]Y 'UW hgUa a ]h A YbgW i bX 'BUhi f i a [Y\h"

± 'gY]bYf': fY]nY]h'n]Y\h'Yg'K YmfcghU'Ub'XYb'<]a a Y`hY]W\ž'Y]bYb C fhž'XYb'Yf'[ Ubn'VYgcbXYfg'gW\Àhnh''<]Yf'Z]bXYh'Yf'A ca YbhY'XYf Fi\Y'i bX'± bgd]fUh]cbž'X]Y']\a '\Y`ZYbž'X]Y'hÀ[`]W\Yb < YfUi gZcfXYfi b[Yb'ni 'a Y]ghYfb"'9b[U[]Yfh'ZØf'Y]bY'`YVYbgk YfhY Ni \_i bZhž'a ÒW\hY'Yf'X]Y'8cbUi ghUXh'ni 'Y]bYa 'J cfnY][Ya cXY``'ZØf DUfh]n]dUh]cb'i bX'±bcj Uh]cb'a UW\Yb"

K ]Y [ Y\h Yg k Y]hYf3 C V ]b XYf Dc `]h]\_ 'c XYf ']b 'XYf 'K ]fhgWX UZh 'X]Y : fU[ Yb 'g]b X 'j ]Y `ZÀ `h][ . 'K ]Y 'k c ``Yb 'k ]f ``YVYb 3 'K Y `WX Y F c ``Y 'gc ``
XYf 'GhUUh 'gd ]Y `Yb 3 'I b X 'k ]Y 'gWX ØhnYb 'k ]f 'X]Y '9f XY 3 'K YmfcghU ``À Xh
XUni 'Y]b ž a i h][ 'ni 'hf Ài a Yb 'i b X 'U\_h]j 'ni '\Ub XY `b ž XYbb 'k ]Y 'gc
gWX Òb '[ YgU[ h 'k ]f X . 'K Ybb 'j ]Y `Y' [ Ya Y]bgUa 'hf Ài a Yb ž ']gh 'Yg 'XYf
5 b ZUb [ 'Y]b Yf 'b Yi Yb 'K ]f\_`]WX\_Y]h" '9g 'V `Y]V h 'gd Ub b Yb X 'ni
VYc V UWX hYb ž 'K Ug 'X]Y 'Ni \_i b Zh 'ZØf 'X]Y '8 c b Ui ghUXh 'V Yf Y]h\ À `h"

8 Y hU]`g	
Cfh	8 cb UighUXhž <sup>-2</sup> ghYffY]WX
EiY``Yb	• k]Yb"bYcg"Yi
	<ul><li>k k k "i bhYfbY\a YbgVYfUhi b[!</li></ul>
	\U[a Ubb"Uh
	• k k k "d`UhhZcfa U[YbXU&\$'\$"W

6 Ygi W Yb 'G]Y 'i bg 'Ui Z 'a Y]b!k ]Yb "b Yh