

## Dc`]nY]\_cbhfc``Y']b'FcgYb\Y]a 'Yg\_U`]Yfh. 5[[fYgg]j Yf'K]XYfghUbX'i bX': `i WXh°



GW a YhhYfYfghfU» Yž'FcgYb\Y]a ž'8 Yi hgW `UbX'!'5a

BUW a ]hhU[ 'XYg'%&"' > b]'[ Yf]Yh'Y]bY'fci h]bYa À» ][ Y'dc`]nY]`]W Y

DYfgcbYb\_cbhfc``Y']b'XYf'GW a YhhYfYfghfU» Y']b'FcgYb\Y]a 'Ui g

XYa 'Fi XYf"'8]Y'?cbhfc``Y'VYhfUZ'nk Y]' i b[ Y'A ÀbbYfž'j cb'XYbYb

Y]bYfž'Y]b'%, !A\f][ Yf'6Yk c\bYf'Ui g'FcgYb\Y]a ž'g]W 'U[ [ fYgg]j

j Yf\]Y`hi bX'g]W 'XYb'6YUa hYb'k ]XYfgYhnhY"'GY]b'6Y[ `Y]hYfž'Y]b

&(!A\f][ Yfž'bi hnhY'X]Y'; Y`Y[ Yb\Y]h'ni f': `i W\hi bX'Yfk ]Yg'g]W 'U`g

Yf\YV`]W Yf'I bfi \Ygh]ZhYf"

8]Y '6YUa hYb'j Yfgi W\hYb'ni b\AW\gh\ZYb'\&(!\A\f][Yb'\ZYghni\U\hYb\Z\XCW\X]YgYf'k Y\fhY'g]W\\\YZh]['i b\X'\_cbbhY'Ybh\_ca a Yb'''K \A\fYbX\gY]bYf': \i W\h'\]Y\\"Yf'Y]b'< Ub\Xm'i b\X'Y]bY'\_\Y]bY\\
8fi \W\_j Yfg\W\\i ggh\\DhY\\]bh\Yf'g]\W\\Z'\k\Ug'\X]Y'\G]hi \Uh]cb'\bc\W\

 $\label{thm:composition} $$YId`cg]j Yf`a UWX hY"`GWX`i *YbX`]WX`[Y`Ub[`Yg`XYb`Dc`]n]ghYb`a ]h$$I bhYfghØhni b[`k Y]hYfYf`GhfY]ZYbž`]\b`Y]bni \c`Yb"`6Y]`XYf$$$UbgWX`]Y*YbXYb`8 i fWX gi WX i b[`ZUbXYb`X]Y`9]bgUhn_fÀZhY`b]WX h$$bi f`Y]bY`i bhYfgWX`U[YbY`97!?UfhY`i bX`Y]b`HUgWXYba YggYfž$$gcbXYfb`g]WXYfhYb`Ui WX`?c_U]b`Ui g`XYf`k Y[[Yk cfZYbYb`HØhY"$$$ 

## FYWXh`]WXYf'FU\a Yb'i bX': c`[Yb

8]Y'5i gY]bUbXYfgYhni b['\UhhY'b]W\h'bi f'\_OfdYf']W\Y
5i gY]bUbXYfgYhni b[Yb'ni f': c`[Y''Y]b'6YUa hYf'Yf`]hh'VY]'XYa
9]bgUhn''Y]W\hY'JYf`Yhni b[Yb'Xi fW\'X]Y'K]XYfghUbXg\UbX`i b[Yb''
; Y[Yb'XYb'%,!À\f][Yb'k]fX'bi b'k Y[Yb'K]XYfghUbXg'[Y[Yb
Jc``ghfYW\_i b[gVYUa hY'i bX'?OfdYfj Yf`Yhni b['Yfa]hhY`h''
6YgcbXYfY'6YUW\hi b['Z]bXYh']b'X]YgYa 'Ni gUa a Yb\Ub['z'%%'
Gh; 6ž'XYf'K]XYfghUbX'[Y[Yb'Jc``ghfYW\_i b[gVYUa hY'fY[Y`h''8]YgY
JcfgW\f]Zh'[]`h'ZØf'U``Yž'X]Y'g]W\'U\_h]j '[Y[Yb'dc`]nY]`]W\Y
A U» bU\a Yb'ni f'K Y\f'gYhnYb''

K ]XYfghUbXi]ghi]a '5``hU['jcb'Dc`]nY]VYUa hYb'\_Y]bY'GY`hYb\Y]h"

K ]Y'fU!\_chn"XY'Yf\_`Àfhži a ZUggh'X]YgYf'gck c\``U\_h]j Y'U`g'Ui W\
dUgg]j Y'<UbX`i b[Ybž'X]Y'XYb'A]hUfVY]hYfb'XYf'Dc`]nY]'X]Y

5a hgUi gZØ\fi b['YfgW\kYfYb'cXYf'j Yf\]bXYfb"'6YgcbXYfg
gW\kYfk]Y[YbXY':À``Yž']b'XYbYb'Yg'ni '?ÒfdYfj Yf`Yhni b[Yb
\_ca a h'cXYf'XUg'[YkÀ\`hY'HUha]hhY``i bj Yf\À`hb]ga À»][
YfgW\Y]bhž'\_ÒbbYb'a]h'V]g'ni 'ZØbZ'\J\fYb':fY]\Y]hgghfUZY'[YU\bXYh kYfXYb"

## 9fa ]hh`i b[ 'i bX'J YfZc`[ i b[

8]YgY'G]hi Uh]cb'j YfXYi h`]W\hž'k]Y'k]W\h]['Yg']ghž'X]Y'FYW\hg`U[Y'ni\_YbbYb'i bX'YbhgdfYW\YbX'ni '\UbXY`b"'\D'\NY]hYbž']b'XYbYb
5i gY]bUbXYfgYhni b[Yb'nk]gW\Yb'N]j]`]ghYb'i bX'XYf'Dc`]nY]
ni bY\a Ybž'nY][h'g]W\'YfbYi hž'XUgg'Y]b'fYgdY\_hj c``Yg'A]hY]bUbXYf
i bX'XUg'J YfghÀbXb]g'ZØf'X]Y'fYW\h`]W\Yb'FU\a YbVYX]b[i b[Yb

8 Y hU]`g	
Cfh	GWN a YhhYfYfghfU» YžFcgYb\Y]až
	8 Yi hgWX`Ub X
EiY``Yb	• k k k "dbd"XY
	• 'i fU!cb`]bY"XY
	<ul><li>k k k "fU!_chn"XY</li></ul>

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'bU[!VUmYfb "XY