

## CdYbgYUB: HA Uf\_Yhd`UWYVY\Ui dhYhž A]hUfVY]hYfdfcZ]h]YfhYjcb =bg]XYf]bZcfa Uh]cbYb

5a %) "GYdhYa VYf" [UV CdYbgYUž XYf ZØ\fYbXY

A Uf\_hd`Uhn ZØf b]W h Zi b[]V`Y Hc\_Yb fB: HŁž VY\_Ubbhž XUgg

Y]bY: Ø\fi b[g\_fUZh j cb CdYbgYU j ca =bg]XYf\UbXY`
dfcZ]h]Yfh`\Uh" ; YghYfb`\UVYb k]f YfZU\fYbž XUgg Y]bYf
i bgYfYf A]hUfVY]hYf 5fh]\_Y`[Y\_Ui Zh`\Uhž j cb XYbYb Yf
k i gghYž XUgg Yf Ui Zi bgYfYf H]hY`gY]hY Ub[YnY][h k YfXYb
gc``hYž VYj cf Yf Xcfh ÔZZYbh`]W Ui ZhfUh ž ]bZcfa]YfhY
CdYbgYU X]Y 2 ZZYbh`]W \_Y]h Ua A]hhk cW "CdYbgYU bUbbhY
XYb A]hUfVY]hYf b]W hž UVYf GcWJU !A YX]U!6Y]hfA[Y
VYgW i `X][hYb Y]bYb CdYbgYU!A UbU[Yf Ua 8]YbghU[ž
[Y\Y]a Y; Y`XVÔfgYb ni j Yfk YbXYb"

## CdYbgYU!HYUa 'gU[hž'B: H!A Uf\_hVYhfY]VYfg]bX' i b[`Ui V`]WX 'YbhhÀi gWX h

; YghYfb`\UVYb`k]f`YfZU\fYbž`XUgg`Y]bYf`i bgYfYf`A]hUfVY]hYf
5fh]\_Y``[Y\_Ui Zh`\Uhž'j cb`XYbYb`Yf`k i gghYž`XUgg`Yf`Ui Zi bgYfYf
H]hY`gY]hY`Ub[YnY][h`k YfXYb`gc``hYž`VYj cf`Yf`Xcfh`ÒZZYbh`]W\
Ui ZhfUh ž`\Y]» h`Yg`]b`XYf`9f\_`Àfi b[jcb`CdYbgYU"`8Ug`]gh
i b[`Ui V`]W\YbhhÀi gW\YbX"`K]f`a ÒW\hYb`\_`UfghY``Ybž`XUgg`X]YgYg
J Yf\U`hYb`b]W\hi bgYfY`K YfhY`U`g`HYUa `fYdfÀgYbh]Yfh"

## CdYbgYU']a d`Ya Ybh]Yfh'bYi Y'F]W\h`]b]Yb'ZØf A ]hUfVY]hYf

 $BUWX `5b[UVYb`XYf`AUf\_hd`UhnVYhfY]VYf`ZØ\fYb`g]Y`Y]bY`gcZcfh][YibX`[fØbX`]WXY`,VYfdfØZib[`X]YgYg`JcfZU``g`XifWX"`8]Y`:]faUk]```Y]b`jc``ghÀbX][Yg`JYfghÅbXb]g`XUjcb`Yf`Ub[Ybž`k]Y`X]Yg[YgWXU\ž`ibX`Jcfg]WXhgaU»bU\aYb`XifWX[Y\Yb"`8Yf`VY`]YVhYB:H!AUf_hd`Uhn`CdYbgYU`ZØ[hY`\]bniž`XUgg`XUg`IbhYfbY\aYbY]b][Y`bYiY`F]WXh`]b]Yb`Y]b[YZØ\fh`\Uhž`k]Y`nia`6Y]qd]Y`.$ 

- CdYbgYU!HYUa a ]h[`]YXYf'XØfZYb'\_Y]bY'GUa a `i b[Yb'cXYfGW\OdZYf'\_Ui ZYb'cXYf'j Yf\_Ui ZYbž'k \(\delta\\)fYbX'k ]f'g]Y
  df\(\delta\)gYbh]YfYb'cXYf'VYk YfVYb'fh6'Ui Z'i bgYfYf'<ca YdU[YŁ/ibX</li>
- CdYbgYU!HYUa a ]h[`]YXYfb`]gh'Yg'i bhYfgU[hž'j YfhfUi`]W\Y
   Zcfa Uh]cbYb'ni a '? Ui Z'cXYf'J Yf\_Ui Z'j cb'B: Hg'ni
  j Yfk YbXYbž'i bUV\Ab[][ 'XUj cbž'cV'X]YgY'Ui Z'XYf
  CdYbgYU!D`UhhZcfa 'j YfZØ[ VUf'g]bX'cXYf'b]W\h"

5a '%( "'GYdhYa VYf'k ]fX'XYf'Hk ]hhYf!5 Wwci bh'4 Ni k i hj 'hk ]hhYfhY ØVYf'Y]bYb'A ]hUfVY]hYfž'XYf' [Y\Y]a Y'6f]YZhUgW\Yb 'bi hnhž'i a 8fcdg'Ui Z'XYf'H]hY`gY]hY'ni '\_Ui ZYb"' < Ymž'C dYbgYU ž'Ni k i hj '[Yhk]hhYfh" K Ufi a 'YfgW\Y]bh'Yg3'4 bUhYW\UghU]b'\Uh'Y]b'dUUf [Y\Y]a Y'6f]YZhUgW\Ybž'X]Y'\Rightarrow fY'H]hY`gY]hYb!8fcdg'ni '\_Ui ZYb gW\Y]bYbž'VYj cf'g]Y'Ui Z[Y`]ghYh'k YfXYbž'g]Y'XUbb'\_i fn'bUW\'XYa < mdY!Gd]hnY'Ui Z'XYf'H]hY`gY]hY'ZØf'; Yk ]bbY'j Yf\_Ui Zh'i bX'g]Y'XUbb a ]h'gY]bYa 'Di b\_'XUfUi Z'ni fØW\_']b'gY]bY' < Ui dh[Y`XVÒfgY gW\'Yi XYfh3

8 UgʻDfcVʻYa ʻa ]hʻ\bg]XYf]bZcfa Uh]cbYbʻVY]ʻ5 i \_h]cbYbʻi bX
J Yf\_Ài ZYbʻUi ZʻXYa ʻB: H!A Uf\_hʻVYghY\hʻXUf]bžʻXUggʻX]YʻDfY]gYʻj cb
B: Hgʻ]a ʻ5``[ Ya Y]bYbʻUbZÀ``][ ʻZØfʻA Ub]di `Uh]cbYbʻgY]bʻ\_ÒbbYb''
6]hWc]b''Wca ʻBYk gʻ\UhʻXYW\_hYʻXUgʻH\Ya UʻUVʻj cbʻa Ub]di `]YfhYb
B: H!J Yf\_Ài ZYbʻi bXʻ!5 i \_h]cbYb'' \dangle X]YgYa '6Yf]W\h'k i fXYʻG\]``
6]XX]b[ ʻX]g\_i h]Yfhi bXʻk ]Yʻg]W\ʻG\]``6]XX]b[ ʻbY[ Uh]jʻUi ZʻB: H!
5 i \_h]cbYbʻi bXʻ5 i \_h]cbYbʻ]a '5``[ Ya Y]bYbʻUi gk ]f\_Ybʻ\_Ubb''

 $\label{eq:conditional} K \ \grave{A} \ fY \ bX \ Gc \ W] U \ !A \ YX ] U ! \ 6Y ] h f \grave{A} \ [Y \ Y] \ bY \ : \ \emptyset \ fi \ b [\ g\_f U \ Zh \ X Y g]$ 

: Øf Y]b b Yi Ygž c ZZYb Y f Yg ' ± b Y f b Y hž X Ug 'G W Òd ZY f 'i b X 'G Ua a `Yf V Y ZÅ\][ hž a Øgg Y b 'k ]f 'J Y f h f Ui Y b 'i b X 'H f U b g d U f Y b n ']b 'U ``Ygž 'k Ug k ]f 'hi b ž 'Y]b Z ]Y » Y b ``Ugg Y b ž g W `c gg Y b 'X]Y '9f\_`À f i b [ Y b 'j c b C d Y b g Y U " K ]f 'g]b X 'V Y g h f Y V h ž 'ZØf 'i b g Y f Y 'B i h n Y f 'X Ug 'F ] W h ][ Y 'n i hi b 'i b X 'X Ug 'J Y f h f U i Y b 'X Y f '7 ca a i b ] h m ž X Y f 'k ]f 'X]Y b Y b ž n i f Ø W\_n i [ Y k ]b b Y b "

 $K\ Ug`\ U`hYb`G]Y`j\ cb`CdYbgYU\ g`DfcV`Ya`a\ ]h`Y]bYa$   $A\ ]hUfVY]hYfz`XYf`Ub[\ YV`]WX`]a`< UbXY``a\ ]h`B:\ Hg`hÀh][`k\ Uf3$   $HY]`Yb`G]Y`i\ bg`=\ fY`A\ Y]bi\ b[`ni``X]YgYa``H\ Ya\ U`]b``XYb$ ? ca a YbhUfYb`i\ bhYb`a\ ]h"

6] XbUW k Y]gY. G\i hhYfghcW\_ZD]I UVUmžK ]\_] 7ca a cbg

fZ bWh]cbfKž·gž·]XŁ·oʻj Ufʻʻqž·Zʻqʻ1 'X"[Yh9`Ya Ybhq6mHU[BUa YfgŁQ\$Q']ZʻfK"[Yh9`Ya Ybh6m=Xf]]XŁŁ·fYhi fb/ʻqʻ1 'X"WfYUhY9`Ya YbhfgŁ/ʻqʻ]X·1 ]X/ʻqʻgfWl "\hhdg.##WcbbYWh'ZUWYVcc\_"bYh#YbSl G#gX\_"ʻq, I ZVa `1 %/j Yfg]cb1j' "&"/'ZʻqʻdUfYbhBcXY"]bgYfh6YZcfYfl'qž·ZʻqŁ/ʻqfKcW'a YbhžfgWf]dhfz·fZUWYVcc\_! ʻqgX\_flŁ/

8 YhU]`g

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