

## B = G '@]j Y 'YffY]W h'a ]h'ØVYf'%'A ]``]cb Ni gW Ui Yfb 'b Yi Y '< Ò\ Yb °

9bhXYW\_Yb^G]Y^X]Y^VYY]bXfi W\_YbXYb^Ni gWXUi YfnU\^Yb^XYg bYi Yb^: cfa Uhg^B \( \delta \) @]j Y\( \delta \) XUg^]b^bi f^k Yb][Yb^A cbUhYb \( \textit{\textit{\textit{g}}\} \) Y^A]\( \delta \) Ni gWXUi Yf^dfc^K cWXY^YffY]WXh^\Uh" \( 9fZU\\\ fYb^G]Y\( \delta \) Y^XUg^]bbcj Uh]j Y^BUWX f]WXhYb! i bX^HU^\_! \( : cfa Uh^a \) h^Ui h\Ybh]gWXYf^6Yf]WXhYfghUhhi b[ i bX \( UbgdfYWXYbXYa^\* \( \delta \) U^hVY[Y]ghYfh"^6`Y]VYb^G]Y^]bZcfa ]Yfh \( \textit{\textit{Q}\} \) Y^INi \_i bZh^j cb^B \( \delta \) G@j Y^i bX^XYb^5i gVUi XYf \( A cf[YbqYbXi b[^\infty] \)



9]b'bYi Yf'A cf[ YbghUf'Ua 'A YX]Yb\]a a Y`. B∃ G'@]j Y'YffY]W\h'ØVYf'%ž&'A ]``]cbYb Ni gW\Ui Yf

#D'XYb'`YhnhYb'AcbUhYb'\Uh'g]W\'XUg'acf[YbX`]W\Y'BUW\f]W\hYb!
ibX'HU`\_!: cfa Uh'B # G'@j Y'U`g'ZYghYf'6YghUbXhY]`'XYf
XYi hgW\\gdfUW\][Yb'AYX]YbgnYbY'YhUV`]Yfh"'5a 'GcbbhU[ž'XYb'%"

GYdhYa VYf`V]g`: fY]hU[ ž`XYb`\*"`GYdhYa VYf`&\$&( ž`\_bUW\_hY`X]Y GYbXi b[ `ni a `YfghYb`A U``X]Y`VYXYi hYbXY`A ]``]cbYb[ fYbnY`i bX j YfnY]W\bYhY`]b`Y]bYf`K cW\Y`ØVYf`%ž&`A ]``]cbYb`Ni gW\Ui Yf`Ui Z Mci hi VY"`8]Yg`ghY``h`Y]bYb`k]W\h][ Yb`K YbXYdi b\_h`ZØf`XUg`^i b[ Y : cfa Uh`XUfž`XUg`Yfgh`]a `A Àfn`&\$&( `gY]bY`DfYa ]YfY`ZY]YfhY"

9]b 'VYa Yf\_Ybgk YfhYf'5gdY\_h'X]YgYf'9bhk ]W\_`i b[ ']gh'XUg'ghUf\_Y \diphyfYggY'XYf'dc`]h]gWXYb 'Ni gWXUi Yf"'5a 'K U\`!GcbbhU[ ']b \diphyfYggY'XYf'dc`]h]gWX yb 'nÀ\`hYb'X]Y'B \dip G'@jj Y!6Yf]WX hYfghUhhi b[ ZUgh'(\$"\$\$\$'[ `Y]WXnY]h][ Y'Ni gWXUi Yf'Ui Z'Mci hi VYž'k Ug'X]Y FY`Yj Ubn'XYg'Dfc[ fUa a g']b'U\_hi Y``Yb'dc`]h]gWXYb'8]g\_i fgYb i bhYfghfY]WXh''Gc`WX'\c\Y'@jj Y!NU\`Yb'nY][ Ybž'XUgg'j ]Y`Y A YbgWXYb'Ui Z'XYf'Gi WXY'bUWX'X]fY\_hYf'i bX'j YfghÀbX`]WXYf 6Yf]WXhYfghUhhi b[ 'g]bX"

 $5 VYf''k Ug'Yf'Ui Vh'Yg''B \neq G'@j Yž']a ``UfhYb''K YhhVYk YfV'i a Ni gWX Ui YfnU``Yb'gc'gWXbY```YfZc`[fY]WX'ni 'gY]b3'8]Y'5bhk cfh `]Y[h']b'XYf'D\]`cgcd\]Y'XYg': cfa Uhgž'XUg'g]WX'Ub'XYb'U``hÀ[`]WXYb Gcf[Yb'XYf'Ni gWXUi Yf'cf]Ybh]Yfh''FY]WXY`h'VYhcbhž'XUgg'B \equiv G'@j YX]Y'A YbgWXYb'b]WXh'VY`Y\fYbž'gcbXYfb'g]Y']b']\fYf'@YVYbgfYU`]hÀh Yfbgh'bY\a Yb'a ÒWXhY''8i fWX'X]YgY'Ya dUh\]gWXY < YfUb[Y\Ybgk Y]gY'[Y`]b[h'Yg'XYa ': cfa Uhž'Y]bY'; Ya Y]bgWXUZh j cb'Ni gWXUi Yfb'ni 'V]`XYbž'X]Y'g]WX'a ]h'XYb'\equiv \N'hYb']XYbh]Z]n]Yfh''$ 

8 UgʻK UWX ghi a ʻj cbʻB \( \delta \) @j Yʻ\_ObbhYʻUi WXʻ]a ʻ?cbhYl hʻXYf k UWX gYbXYbʻ6YXYi hi b[ʻj cbʻX][]hUʻYbʻDʻUhhZcfa Ybʻi bXʻgcn]UʻYb A YX]YbʻVYhfUWX hYhʻk YfXYb"'\( \delta \) Y]bYfʻNY]hžʻ]bʻXYfʻj ]YʻYʻhfUX]h]cbYʻ`Y A YX]Ybʻi a ʻXYbʻ5bgWX`i ggʻ\_Aa dZYbžʻnY][hʻB\( \delta \) @j Yž'k ]YʻUi Z a cXYfbYʻ6YXØfZb]ggYʻfYU[]Yfhʻk YfXYbʻ\_Ubb"'8YfʻD`UbžʻX]Y

a cf[YbX`]W\Y`HU`\_ghfYW\_Y`bcW\`]b`X]YgYa `\J\f`ni `Yfk Y]hYfbž g][bU`]g]Yfh`X]Y`5a V]h]cbYb`XYg`HYUa gž`X]Y`FY]W\k Y]hY`k Y]hYf Ui gni VUi Yb`i bX`bcW\`a Y\f`Ni gW\Ui Yf`Ubni gdfYW\Yb"

8]Y'\_ca a YbXYb'A cbUhY'V`Y]VYb'gdUbbYbXž'XYbb'X]Y <YfUi gZcfXYfi b['k]fX'gY]bž'X]Y'YffY]W\hYb'Ni gW\Ui Yf'ni '\U`hYb i bX'bYi Y'ni '[Yk]bbYbž'k À\fYbX'XUg'HYUa 'j cb'B \( \) G'@j Y'gY]bY J]g]cb'k Y]hYfZØ\fh"

6Yf`]b

8 Y hU]`a

6Yqi WXYb 'G]Y 'i bq 'Ui Z. 'a Y]b!VYf`]b "bYh