

9]b '? Àa d ZYf 'Ui g '? c V `Ybn. 'H]`g VYY]b Xfi W_Yb XY '; YgWX]WX hY 'XYf < c ZZbi b[

5b'U'GWXfcW_'VYgi WXh'6i bXYgj YfX]Ybgh_fYi nhfÀ[Yf6Yfb\UfX'9\`/'9]bY'VYk Y[YbXY'; YgWX]WXhY'ØVYf': fØ\WXYbH]`i bX'gY]b', VYf`YVYb"

8]Y VYfØ\fYbXY; YgW\]W\hY j cb H]'ž XYf U`g: fØ\W\Yb XUg @]W\h XYf K Y`h YfV`]W_hYž V]YhYh b]W\h bi f Y]bYb 9]bV`]W_]b X]Y < YfUi gZcfXYfi b[Yb XYf BYcbUhc`c[]Yž gcbXYfb i bhYfghfY]W\h Ui W\ X]Y 6YXYi hi b[Y]bYf [i h Z b_h]cb]YfYbXYb a YX]n]b]gW\Yb JYfgcf[i b[" 5a (" A U] &\$\$& _Ua H]`]b XYf &, "GW\k Ub[YfgW\UZhgk cW\Y]a ?Ya dYf\cZni f K Y`h" GY]b, VYf`YVYb k Uf XUa U`g U``Yg UbXYfY U`g g]W\YfžUVYf XUb_ Y]bYg Yb[U[]YfhYb ŸfnhYhYUa g i bX a cXYfbghYf a YX]n]b]gW\Yf 6Y\UbX`i b[gUbgÀhnY Yf\c`hY`g]W\XXf'_`Y]bY'?Àa dZYf"

9]b K Y['j c``Yf'< YfUi gZcfXYfi b[Yb

 $5 \circ H] \circ U \circ : f\emptyset \lor W \lor b [Y \lor cf Y b k i f X \lor Y \land Y] [h \lor b g] W gc Z cfh gW k \lor f Y ? ca d \circ]_Uh] cb Y b " 9f Y f \circ]hh Y] b Y b V Y] X g Y] h] [Y b @ b [Y b f] g g i b X < Y f n! ? f Y] g `Ui Z Y f g U [Y b " 8 f " a Y X " H \ ca U g < c d d Y b z X Y f X U g a Y X] n] b] gW Y H Y U a `Y] h Y h Y z Y f] b b Y f h Y g] W U b X] Y _f]h] gW Y D \ Ug Y X Y f 6 Y \ Ub X \ i b [" 8] Y @ b [Y b g] b X V Y] g c _ `Y] b Y b ?] b X Y f b k] b n] [z U V Y f `Y V Y b g k] W h] [ZØ f X Y b 5 h Y a [Ug U i gh U i g W ž Y f `A i h Y f h Y f " 8] Y g c Z c f h] [Y a Y X] n] b] g W Y \ \Delta h Y f j Y b h j c b z X] Y i b h Y f Ub X Y f Y a X] Y K] Y X Y f V Y `Y V i b [i b X X] Y J Y f g c f [i b [g a U » b U \ a Y b V Y] X Y f @ b [Y b i a Z U g g h Y z n Y] [h Y K] f _i b [i b X H] `g N i g h U b X g h U V] `] g] Y f h Y g] W `b U W `] b h Y b g] j a Y X] n b J g W Y b `A U » b U \ a Y b "$

6YXYi hi b[XYg HYUa g]b ? f]gYbg]hi Uh]cbYb

: fUb_ G]a cb]gž H]`g J UhYfž]gh g]W XYf XfUa Uh]gW Yb I a ghÀbXY VYk i ggh" C\bY Y]b Y]b[Ygd]Y`hYg HYUa žXUg gW bY`` i bX YZZ]n]Ybh fYU[]Yfhž \ÀhhY X]Y; YgW]W hY [Ubn UbXYfg Ui g[Y\Yb _ObbYb ž gU[hYf" 9g]ghY]b Y]bXf]b[`]W Yg 6Y]gd]Y` XUZØfžk]Y YbhgW Y]XYbX X]Y 5fVY]h]a HYUa ZØf XYb 9fZc`[]b XYf BchZU``a YX]n]b]gh" 8]Y : Ua]`]Y XYg _`Y]bYb ? Àa dZYfg ghY``h ZYghž XUgg X]Y I bhYfghØhni b[Xi fW : UW ÀfnhY i bX XUg DZY[YdYfgcbU`]b XYf]bhYbg]j a YX]n]b]gW Yb 6YhfYi i b['j cb'i bgW ÀhnVUfYa 'K Yfh'k Uf"

9]b Ya ch]cbU`Yg K]YXYfgY\Yb

 $= 3 \quad \text{JYf'UiZ XYf} \quad \text{JV}fY \quad \text{Ybhk} \quad \text{JW_Y'hY} \quad \text{g} \text{JW} \quad \text{Y} \text{bY} \quad \text{ghUf_Y} \quad \text{6} \text{bXib} \quad \text{IM} \quad \text{g} \text{W} \quad \text{Yb} \quad \text{H} \text{J} \text{Z} \quad \text{gY} \text{JbYf} \quad \text{Ua} \quad \text{J'} \text{JY} \quad \text{ibX} \quad \text{XYa} \quad \text{a} \quad \text{XX} \text{Jn} \text{Jb} \text{Jg} \text{W} \quad \text{Yb} \quad \text{HYUa} \quad \text{GY} \quad \text{Yb} \quad \text{Yb} \quad \text{HYUa} \quad \text{GY} \quad \text{Yb} \quad$

8 Yf'GhY``Ybk Yfh'Y]bYf'[i hYbbYcbUhc`c[]gW\Yb'JYfgcf[ib[

Aiha UWX Yb XifWX '9fZU\fib[qVYf]WX hY

8 Ug 6YXØfZb]gž UbXYfYb: Ua]`]Yb]b À\b`]W\Yb G]hi Uh]cbYb Aihni a UW\Ybž hf]YV H]`g: Ua]`]Y Ubž]\fY 9f`YVb]ggY ni hY]`Yb" K]f\AhhYb i bg XUa U`g [Yk ØbgW\hž XUgg UbXYfY j cb]\fYb 9fZU\fi b[Yb YfnÀ\`Yb ž VYhcbh AihhYf 5ghf]X" 8]YgYf 5i ghUi gW_ÒbbhY ZØf UbXYfY 9`hYfb]b VY`UghYbXYb A ca YbhYb j cb [fc» Yf 6YXYi hi b['gY]b"

8]YK]WXh][Y]hjcbBchZU``hfU]b]b[g

8]Y VYk Y[YbXY; YgWk]WkhY j cb H]`nY][h Ui Wkžk]Y k]Wkh][Yg]ghž XUgg b]Wkhbi f a YX]n]b]gWk Yg DYfgcbU`žgcbXYfb Ui Wk 5b[Y\Of][Y]a BchZU`` [YgWki `h g]bX" 8f" <cddYb V]YhYh 'À\f`]WkY BchZU``hfU]b]b[g Ubži a g]WkYfni ghY``Ybž XUgg j]Y`Y A YbgWkYb]a I a [Ub[a]h ?f]gYbg]hi Uh]cbYb [YgWki `h g]bX" *XYf gc``hYfY[Y`a À»][gY]bY?Ybbhb]ggY Ui ZZf]gWkYb ž ZcfXYfhYf"8]Yg]ghY]bbchk YbX][Yf GWkf]hhži a]a 9fbghZU`` gWkbY`` i bX dfcZYgg]cbY``fYU[]YfYb`ni '_ObbYb"

H] \dot{g} ; YgWX]WX hY ghY\h YI Ya d`Uf]gWX ZØf XYb i bYfa ØX`]WX Yb 9]bgUhn]b XYf BYcbUhc`c[]Y i bX X]Y i bnÀ\`][Yb : cfhgWXf]hhY]b XYf a YX]n]b]gWXYb JYfgcf[i b[j cb : fØ\WXYb" G]Y nY][h b]WX h bi f dYfgÒb`]WXY GhÀf_Yž gcbXYfb Ui WX X]Y 6YXYi hi b[Y]bYg [i h Ui g[YghUhhYhYb ; Ygi bX\Y]hggmghYa gž XUg `YVYbgfYhhYbXY <]`ZY V]YhYb`_Ubb"

8 Y hU]`g

6 Y gi W Y b 'G] Y 'i b g 'U i Z 'X] Y ! b U W f] W h Y b "b Y h