



MUSC1704

DYfZcfa UbWV '@JVc fUhc fm&

GYa YghYf'Hk c''##'&\$%



GWcc``cZH Y'5ftg'UbX'A YXJU''##'I BGK ``5ftg'UbX'GcWJU``GWYbWg

7 ci fgY`Cj Yfj]Yk

`GHUZZ`7 cbhUW`i8YHU]`g`

`7 cbj Ybcfg`

B Ua Y	9a U]	5j U]UV]]m	@cW]hcb	D\cbY
@Ui fU`7`]\g`Yth	""W\]g`YthcbYg4 i bgk "YXi "Ui	9a U]`ei Yfmžcf`hc gYhi d`Ub Uddc]bha Ybh		

GWXcc``7 cbhUW`i`bZcfa Uh]cb

Fcca " %&ž`Yj Y"" `F cVYfhK YVghYf`6i]X]b[

D\cbY. f\$&Ł`-` ,) `(,) *

9a U]: [gUa 4 i bgk "YXi "Ui](#)

K YVg]hY: [\hfdg.#gUa "Ufng"i bgk "YXi "Ui](#)

H\Y`GWXcc``cZ`hY`5fng`UbX`A`YX]U`k`ci`X`_]`Y`hc`F`YgdYW`Z`m5W`bck`YX[`Y`h`Y`HfUX]hcbU``7`i`g`hcX]Ubgž`h`Y`6YXY[`U`f`P`Ybg]b[`hcb`WJa`di`gŁž;`UX][`U`f7`]mUbX`5fhi`8Yg][`b`7`Ua`di`gYgŁ`UbX`h`Y`B`[`i`bbUk`U`dYcd`Y`f5i`gfU`]Ub`8YZ`bW`:`cfW`5WUXYa`m]b`7`UbVYffUŁ`cZ`hY`UbXg`k`YfY`YUW`WJa`di`g`cZi`BGK`]g`c`W`h`Y`X`"

5 hY`bX`Ub`W`F`Yei`]fYa`Ybhg

5`ghi`XYbh]g`Yi`dYW`X`hc`U`hY`bX`U``WUgg`W`cbhUW`i`ci`fg`Zc`f`U`ZUW`!hc!ZUW`fI`&`Ł`cf`V`Yb`XYX`W`ci`fgY`UbX`W`ca`d`Y`h`U``UW]j`]hYg`Zc`f`U`V`Yb`XYX`cf`Z`mcb`]bY`W`ci`fgY`"

5`ghi`XYbhk`c`Uff]j`Yg`a`cfY`h`Ub`%)`a`]bi`hYg`U`h`a`UmVY`dYbU`]gYX`Zc`f`bcb!U`hY`bX`Ub`W``Zgi`W`U`dYbU`hm`"

5 WUXYa JWbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`hc. fYei Yghg`Zcf`YI hYbg]cb/fYj]Yk `cZa Uf_g/cVW dUh]cbU``YU`h
UbX`gUZ`m/YI Ua]bUh]cb`dfcW`Xi fYg/gdYW]U`W`bg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
ghi XYbhYei]mUbX`X]gUV]`]m`UbX`ch`Yf`YggYbh]U``UWUXYa]W]bZcfa Uhcbž
gYY`[\frdg.##k k "Ufrg"i bgk "YXi "Ui #W ffYbh\]ghi XYbh\]#UWUXYa \]W\]bZcfa Uhcb#dfc`hcW`gl`i \]XY`\]bYg#](#)

7 ci fgY'8YHJ]`g

7 fYX]hDc]bng '*`

Gi a a UfmicZ`h`Y'7 ci fgY

Gi V`Y`W`i`5`f`Y`U`.'?` ge[U

DYfZcfa UbW`@UVcfUhcfm&`XYj`Y`cdg`g_]`g`]b`gc`c`dYfZcfa UbW`UbX`YbgYa V`Y`dYfZcfa UbW`h`fci [\ dUfh]W]dUhc]b`]b`YbgYa V`Y`f`g`k`UbX`W`b`W`f`g`" H\Y`W`ci` fgY`]b`W`i` XYg`]b`X`j`]Xi` U`]b`g`f`i` W`]c`b`]b`U`j` cWU`c`f`]b`g`f`i` a` Yb`h`U`gd`Y`W`U`]g`U`h`c`b`c`f`W`c`a` d`c`g`]h`c`b`U`g`k`Y`U`g`d`U`f`h`W`]d`U`h`c`b`]b`g`Y`Z`g`Y`Y`W`X`j` cWU`UbX`#`f`]b`g`f`i` a` Yb`h`U`YbgYa V`Y`g`"5`h`Y`b`X`UbW`UbX`d`U`f`h`W`]d`U`h`c`b`]b`D`Y`f`Z`c`f`a`]b`U`f`Z`U`Z`c`f`i` a` h`U`h`d`f`c`j`]X`Y`g`U` d`U`h`Z`c`f`a` Z`c`f`c`d`Y`b`d`Y`f`Z`c`f`a` UbW`g`UbX`d`Y`Y`f`W`]h`W`g`a` ž`UbX`D`Y`f`Z`c`f`a` UbW`K`c`f`_`g`l`c`d`ž`U`d`f`U`W`]W`d`Y`f`Z`c`f`a` UbW` k`c`f`_`g`l`c`d`UbX`Z`c`f`i` a` Z`c`f`X`Y`H`J`]Y`X`X`]g`W`g`g`]c`b`c`Z`]g`g`i` Y`g`]b`d`Y`f`Z`c`f`a` UbW`UbX`a`i`g`]W`U`g`h`m`Y`g`"

5 h`h`Y`W`c`b`W`i` g]c`b`c`Z`h`]g`W`c`i` fgY`h`Y`g`h`i` XYb`h`k`]`V`Y`U`V`Y`h`c`

%` 8`Ya`c`b`g`f`U`H`W`c`b`Z`X`Y`b`W`]b`Z`c`i` b`X`U`h`c`b`U`h`W`X`b`]W`U`g_]`g`]b`X`U`X`Y`j`Y`c`d`]b`[`g`Y`b`g`Y`c`Z`U`f`h`g`h`W`]g`g`i` Y`g`]b`d`Y`f`Z`c`f`a` UbW`ž`d`U`f`h`W`U`f`m`f`l`m`h`a`]W`d`f`Y`W`]g`]c`b`ž`h`c`b`Y`d`f`c`X`i` W`]c`b`UbX`U`[`]]m`ž`h`f`c`i` [\ `]b`g`f`i` a` Yb`h`U` c`f`j`c`W`U`d`Y`f`Z`c`f`a` UbW`
&` 8`Ya`c`b`g`f`U`H`W`Ub`UV`]`]m`h`c`k`c`f`_`Y`Z`Y`W`]j`Y`m`]b`a`i`g`]W`Y`b`g`Y`a`V`Y`g`
'`" `=i`g`f`U`H`W`X`Y`H`J`]Y`X`c`V`g`Y`f`j`U`h`c`b`U`UbX`]g`h`Y`b`]b`[`g_]`g`]b`a`i`g`]W`d`Y`f`Z`c`f`a` UbW`h`f`c`i` [\ `k`f`]h`Y`b`UbX` j`Y`f`V`U`W`]h`e`i`Y`g`

HYUW`X`]b`[`G`h`f`U`H`[`]Y`g`

ž`c`f`X`Y`f`h`c`X`Y`j`Y`c`d`h`Y`f`Y`e`i`]f`Y`X`h`W`X`b`]W`U`UbX`U`Y`g`h`Y`h`W`g_]`g`]b`]b`g`f`i` a` Yb`h`U`c`f`j`c`W`U`d`Y`f`Z`c`f`a` UbW`ž` D`Y`f`Z`c`f`a` UbW`@UVcfUhcfm&`g`h`i`XYb`h`g`U`f`Y`f`Y`e`i`]f`Y`X`h`c`i` b`X`Y`f`U`_`Y`d`f`j`U`h`Y`gd`Y`W`U`]g`h`]b`g`f`i` a` Yb`h`U`c`f`j`c`W`U`]b`g`f`i` W`]c`b`f`%`\$`l`c`i` fg`a`]b`]a`i`a` l`U`h`Y`b`X`UbX`d`U`f`h`W`]d`U`h`U`h`7`c`b`W`f`h`D`f`U`W`]W`ž`Ub`c`d`Y`b`Z`c`f`i` a` h`U`h`d`f`c`j`]X`Y`g` di`V`]W`d`Y`f`Z`c`f`a` UbW`Y`i`d`Y`f`]Y`b`W`UbX`h`Y`c`d`d`c`f`i`b`]m`h`c`X`Y`j`Y`c`d`g_]`g`]b`a`i`g`]W`W`]h`W`g`a`f`j`l`c`i` fg`d`Y`f` g`Y`g`g`]c`b`l`d`Y`f`Z`c`f`a` UbW`k`c`f`_`g`l`c`d`g`f`j`l`c`i` fg`d`Y`f`g`Y`g`g`]c`b`l`UbX`ž`d`U`f`h`W`]d`U`h`]b`U`f`U`b`[`Y`c`Z`Y`b`g`Y`a`V`Y`g`f`&`\$` l`c`i` fg`d`Y`f`g`Y`g`g`]c`b`l`"

5ggYgga Ybh

5`hY`UggYgga YbhUg_g`k`j`VY`ci`h]bYX`]b`hY`Z]fghgh`X]c`WUgg`

!!!!!!!!!!!!!!!

<YfY`UFY`tk`c`]b_g`hc`hY`i`bj`Yfg]m]k`YV`dU[`Yg`UVci`hWc`ffYWh`fYZYfYbW]b[`.

\h]dg.#]gh`XYbh`i`bgk`"YXi`"Ui`#Ack`!Xc!]`W]hY`

\h]dg.#]gh`XYbh`i`bgk`"YXi`"Ui`#JdU`

5ggYgga YbhHUg_g`

5ggYgga YbhUg_g`	K`Y][` \`h`	8`i`Y`8`UH`Y`	Gh`XYbh`@YUfb]b[` Ci`hWc`a`Yg`5ggYggYX`
K`cf_g` \`cd`XYa`cbghfU]h]cb`	&\$!	B`ch5`dd`]W]V`Y`	%&Z`
9bgYa`V`Y`Wc`bhf]Vi`h]cbz` dYfZc`fa`UbW]g]z`dUfhWX`YW_]b[`	&\$!	B`ch5`dd`]W]V`Y`	&
DYfZc`fa`UbW`W]h]ei`Yg`	%)\$!	B`ch5`dd`]W]V`Y`	`
DfUW]W]Y`I`Ua`]bU]h]cb`cf` Wc`a`dcg]h]cb`dcf]z`]c`)`\$!	B`ch5`dd`]W]V`Y`	%

5ggYgga Ybh8YH]`g`

5ggYgga Ybh%`K`cf_g` \`cd`XYa`cbghfU]h]cb`

Gh]fhXUH`Y`. `B`ch5`dd`]W]V`Y`

@Yb[`h`. `&`l`"`. `hc`)`. `a`]bi`hY`g`

8YH]`g`. `Gh`XYbh]g`UFY`fYei`]fYX`hc`dFYdUFY`tk`c`"`)`. `a`]bi`hY`dYfZc`fa`UbW`dFYgYbhU]h]cbg`. `%&5`k`cf_g` \`cd`XYa`cbghfU]h]cb`cb`U`hYWX`b]W]`UbX`#`f`]b`hYfdFYh]`Y`]ggi`Y`]b`fYdYf]c]fY`i`bXYf`gh`XmUbX`&E`dYfZc`fa`UbW`dUfhV]dU]h]cb`]b`U`gYa`]bUfz`Wc`bW]fhc`f`a`UghYfWUgg`. `YYXVUW`. `k`f]hYb`fYdcf]h`

Hi`fb]h]b`gYH]b[`. `H\]g`]g`bchU`Hi`fb]h]b`Ugg][`ba`Ybh`

5ggYgga Ybh&`. `9bgYa`V`Y`Wc`bhf]Vi`h]cbz`dYfZc`fa`UbW]g]z`dUfhWX`YW_]b[`

Gh]fhXUH`Y`. `B`ch5`dd`]W]V`Y`

@Yb[`h`. `B`#`

8YH]`g`. `Gh`XYbh]g]fWc`bhf]Vi`h]cb`hc`YbgYa`V`Y`fY`YUfg`U`g`UbX`dYfZc`fa`UbW]g`k`]`VY`UggYggYX`Vm]h`Y`YbgYa`V`Y`X]fYWc`f`UbX`h`fci`[`\`U`dUfhWX`YW_]b[`hY`gh]h]hY`YbX`c`Z`h`Y`gYgg]cb": `YYXVUW`. `X]fYWh`Xi`f]b[`fY`YUfg`U`g`UbX`Y`YW]fcb]WU]hYf`dUfhWX`YW_]b[`"

Hi fb]hb'gYHb[. H\]g'jg'bchU'Hi fb]hb'Ugg][ba Ybh

5ggYgga Ybh' . DYfZcfa UbW'W'h]ei Yg

GHUfhXUH. 'Bch5dd]WV'Y

@Yb[h. '&l ') \$\$'k cfXg

8YHU]g. 'Gh XYbfg'UfY'fYei]fYX'hc'Wcbf]Vi h'k c') \$\$'k cfX'W'h]ei Yg'cZdYfZcfa UbW'UbX#cf'Wca a Ybfg'cb dYfZcfa UbW'fY'UH'X'j]ggj Yg'j]U'Ub'cb']bY'Zcfa "'': YYXVUW_.'HYUWX'f'fYgdcXg'h'fci [\ 'U'V'c["

5XX]h]cbU'XYHU]g.

H\Y'W'h]ei Yg'UfY'Xi Y'cbY'k YY_'UZ'f'h'Y'fY'Yj Ubh'YWh'fY'cf'a Ugh'fWUgg"

Gi Va]gg]cb'bchYg.J]U'Ub'cb']bY'V'c['cb'A ccX'Y

Hi fb]hb'gYHb[. H\]g'jg'bchU'Hi fb]hb'Ugg][ba Ybh

5ggYgga Ybh(. DfUW]W'YI Ua]bUH]cb'cf'Wca dcg]h]cb'dcfhZc`]c

GHUfhXUH. 'Bch5dd]WV'Y

@Yb[h. '&\$'a]bi hYg

8YHU]g. '&\$'a]bi h'fYW]U"' H\]g'jg'h'Y'Z]bU'UggYgga Ybh'Ug_": YYXVUW_.'k f]hYb'fYdcf'h'

5XX]h]cbU'XYHU]g.

DfUW]W'YI Ua g'UfY'\Y'X']b'k YY_%)

Hi fb]hb'gYHb[. H\]g'jg'bchU'Hi fb]hb'Ugg][ba Ybh

Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

Gh XYbng'UFY'YI dYWX'hc'di hH'Y'f'buA Yg'UbX'ghi XYbhibi a VYfg'cb'Yj YfmdU[Y'cZ'HY]f'Ugg][ba Ybng"

Hi fb]hb'Gi Va]gg]cb

Zmci 'YbWci bHY'U'dfcV'Ya 'k \Yb'UHYa dh]b['hc'gi Va]hrci f'Ugg][ba Ybh'fci [\ 'Hi fb]hbzd'YUgY
HY'd\cbY'9I HYfbU'Gi ddcf'hc'b-' ,) ' ' ' %cf'Ya U]'HYa 'cb'[YI HYfbU'HY'f'gi ddcf'f4 i bgk "YXi "Ui "](#)Gi ddcf'
\ci fg'UFY' , .\$Ua '-'%. \$da 'cb'k YY_XUmg'UbX'-. \$Ua '-') . \$da 'cb'k YY_YbXg'f'*) 'XUmg'U'mYUf'Zmci
UFY' i bUV'Y'hc'gi Va]hrci f'Ugg][ba YbhXi Y'hc'U'ZU' 'hk]H'Hi fb]hb'rci 'a UmUdd'm'Zcf'Ub'YI HYbg]cb'Z'Vi hrci
a i ghfY'U]b'rci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcf'f'U'cb['k]H'Ubmc'HY'f'f'Y'Yj Ubh'XcW a Ybng'hc'
]bW'XY'Ug'Yj]XYbW'hc'gi ddcf'hrci f'YI HYbg]cb'Udd']W]h'cb" Zmci 'Ya U]'9I HYfbU'Gi ddcf'hrci 'k]'
Ui 'ca U]W'U'm'f'Y'W'j Y'U'h]W_Yhbi a VYf'Z'Vi h]Zmci 'HY'd\cbY'mci 'k]' b'YX'hc'gdY'W]W'U'mUg'_Zcf'cbY"
Hi fb]hb'U'gc'dfc]]XYgi dXU'Y'g'cb'HY]f'gmg'Ya 'ghU'h'g'cb'Hk]HY'f"

; YbYfU'm'Z'UggYgga YbhHUg_g'a i ghVY'gi Va]HY'X'Y'Y'W'f'cb]W'mj]U'Y]H'Y'f'Hi fb]hb'cf'U'A ccX'Y
Ugg][ba Yb'f' 'b]bg'U'ubW'g'k \Y'f'Y'h']g']g' b'chidcgg]V'Y'Z'hk]' VY'g'U'HY'X'cb'mci f'W'ci fg'Y'g'A ccX'Y'g]HY'k]H'
U'HY'fbU]j Y'gi Va]gg]cb'XY'U]g"

@UH'5ggYgga YbhDYbU'h]Yg

Gh XYbng'UFY'fYgdcbg]V'Y'Zcf'HY'gi Va]gg]cb'cZUggYgga YbhHUg_g'Vmi'HY'f'Yei]fYX'XU'HY'g'UbX'h'a Yg'
8YdYbX]b['cZ'HY'YI HY'bh'cZXY'Um]b'HY'gi Va]gg]cb'cZUb'UggYgga YbhHUg_g'dUgh'HY'Xi Y'XU'HY'UbX'h'a Yz'
cbY'cZ'HY'Z'ck]b['UH'dYbU'h]Y'g'k]'Udd'mi b'Ygg'gdY'W'U'W'bg]XY'f'U]cb'cf'U'V'Ub_Yh'YI HY'bg]cb'Xi Y'hc'U'
HY'W'b]W'ci HU[Y']g[f'Ub'HY'X": cf'HY'di fdcgY'cZ'UH'dYbU'm'W'W'U'h]cb'Z'U'X'Um]g'XY'Ya YX'hc'VY'YU'W'
&(!\ci f'dY'f]cX'f'cf'dU'f'h'Y'f'Y'cZ'dU'gh'HY'gh]di 'UH'X'XY'UX']bY'Zcf'gi Va]gg]cb"

- K cf'_gi Va]HY'X'Y'gg'HY'Ub'%'\$'XUmg'U'Z'HY'f'HY'g'h]di 'UH'X'XY'UX']bY']g'gi V'Y'W'hc'U'XY'Xi W]cb'cZ
) i 'cZ'HY'hc'U'Uk UfX'U'V'Y'a Uf'_Z'ca 'HY'a Uf_'H'U'hk ci 'X'\Uj Y'V'Y'Y'b'U'W'X]Yj YX']Z'b'ch'Zcf'HY'
dYbU'm'Zcf'Yj Yfm'X'U'm'dU'gh'HY'gh]di 'UH'X'XY'UX']bY'Zcf'gi Va]gg]cb" H\U'h]g'Z'U'gh'XY'bhk '\ci'gi Va]hg'
Ub'Ugg][ba Ybhk]H'U'gh]di 'UH'X'XY'UX']bY'cZ(. \$da 'cb'%' 'A Um'&\$%' 'Uh(. \$da 'cb'%' 'A Um'&\$%'
k]']b'W'f'U'XY'Xi W]cb'cZ%'\$i "

HUg_'k]H'U'bc'b dY'f'W'bHU[Y'a Uf_

Z'HY'HUg_]g'a Uf_YX'ci hcZ&) Z'HY'b'UH'gi Va]gg]cb'k]'UH'f'U'W'hi'U'dYbU'm'cZU'XY'Xi W]cb'cZ%'&) Z'ca 'HY'
a Uf_'Uk Uf'YX'hc'HY'gh'XY'bh'Zcf'Yj Yfm'&(!\ci f'dY'f]cX'f'cf'dU'f'h'Y'f'Y'cZ'dU'gh'HY'gh]di 'UH'X'XY'UX']bY"

- K cf_`gi Va]hYX`%\$`hc`%-`XUmg`UZhYf`h`Y`gh]di`UH`X`XYUX`]bY`k`j`VY`UggYggYX`UbX`ZYXVUW`dfcj`]XYX`Vi`hU`a`Uf`_`cZnYfc`k`j`VY`fYW`fYX`"Z`h`Y`k`cf`_`k`ci`X`U`j`Y`fYW`j`YX`U`dUgg`a`Uf`_`Vi`hZ`f`h`Y`U`h`b`Y`gg`UbX`h`Y`k`cf`_`]g`U`W`a`di`g`c`f`m`W`i`f`g`Y`W`a`dcbYbhfi`f`X`Y`f`Ye`i`]f`Ya`Y`b`h`Z`U`g`h`X`Y`bhk`j`VY`XY`Ya`Y`X`h`c`U`j`Y`a`Y`h`h`U`h`f`Ye`i`]f`Ya`Y`bh`/`
- K cf_`gi Va]hYX`&\$`cf`a`cfY`XUmg`UZhYf`h`Y`gh]di`UH`X`XYUX`]bY`k`j`bchVY`UW`W`d`h`X`Z`f`UggYgga`YbhUbX`k`j`fYW`j`Y`bc`ZYXVUW`z`a`Uf`_`cf`[`f`U`X`Y`"Z`h`Y`UggYgga`YbhUg`_`]g`U`W`a`di`g`c`f`m`W`a`dcbYbhicZ`h`Y`W`i`f`g`Y`U`g`h`X`Y`bhk`j`fYW`j`Y`Ub`l`bgUhgZUW`c`f`m`:`U`]`f`l`:`k`[`f`U`X`Y`Ug`U`f`Y`gi`h`c`Z`i`bgUhgZUW`c`f`m`d`Y`f`Z`c`fa`UbVW`]b`Ub`Y`gg`Y`bh`j`U`W`a`dcbYbhicZ`h`Y`W`i`f`g`Y`"

H\]g`]bZ`c`fa`U`h`c`b`]g`U`g`c`U`j`U`]U`V`Y`U`h`

[\`h`d`g`#`k`k`k`"U`f`g`"i`b`g`k`"Y`X`i`"U`i`#`W`f`f`Y`b`h`g`h`X`Y`b`h`g`#`J`W`X`Y`a`\]`W`\]`b`Z`c`fa`U`h`c`b`#`d`f`c`h`W`c`g`!`\[`i`\]`X`Y`\]`b`Y`g`#`](#)

5 WUXYa]W<c bYghmUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[`hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b[`hYa `Ug`mci f`ck b" `hWUb`hU`Y`a Ubm
Zcfa gZ`Zca `XY`]VYfUHY`WXYU]b[`hc`UWV]XYbhU`mW`dm]b[`Zca `U`gci fW`k]hCi hUW_bck`YX[Ya Ybh`

I BGK `[fci dg`d`U[]Uf]ga `]bhc`hY`Zc`ck]b[`WUHY[cf]Yg.

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hYI hcf`]XYU`k]hCi hUW_bck`YX[]b[`hY
gci fW`cf`i g]b[`ei chU]cb`a Uf_g" `H\]g`U`gc`Udd`]Yg`hc`]a U[YgZ`UfhUbX`XYg][b`dfc`YWgZ`Ug`k Y`Ug
dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]g`Ubc`hYf`g`]XYUg`cf`k cfXg`k]hCi hW`YX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`Ub[]b[`U`ZYk `k cfXg`UbX`d`fUgYg`k \]Y`a cghmifYU]b]b[`hY`cf][]bU`
ghfi W`i fY`UbX`#`f`dfc[fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`Z`UbX`]bZcfa U]cb`k]hCi hUW_bck`YX[Ya Ybh`H\]g`U`gc
Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`Ubc`hYf`g`]XYUg`cf`k cfXg`k]hCi hW`YX]hU`bX`hc
d]YW]b[`hc[Y`hYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk `k \c`Yz`k]hCi hUddfcdf]UHY`fYZYfYbW]b["

7 c`i g]cb. `k cf_]b[`k]h`chYfg`Vi hdUgg]b[`cZ`hY`k cf_]Ug`U`dYfgcb`g`]bX]j]Xi U`k cf_"`7 c`i g]cb`U`gc

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F'Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dY'W'X'cZYj Yfmcby']b'h'Y'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj]W'g'UbX']bZ'fa U'h'cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k]''VY'ZJa]]Uf'hc'mci ž'c'h'Yfg'k]''VY'bYk "'; U]b]b['U'gc'X'i bXYfghUbx]b['cZU''h'Y fY'U'Y'X'UgdY'W'g'cZ9@-G9'k]''\Y'd'mci 'a U_Y'h'Y'a cgh'cZ'mci f'gh X]Yg'Uhl BGK "

[f\hd.#gi.V'Y'W'f'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#UVci h' \]gYŁ](#)

7 ci fgY'GWXYXi `Y

[J\]Yk`WUgg`hã YhUV`Y](#)

H]a YhUV`Y`

8UhY	HmdY	7cbhYbh
K YY_%`&` `>i`m!`&-`>i`m		H\Y`Z` ``7 ci fgY'GWXYXi `Y`]g`Uj`U]`UV`Y`cb`h`Y A I G7%+\$(#`A ccXY`dU[`Y`i`bXYf`h`Y`g`Y`W]`cb "7 ci fgY'GWXYXi `Y`Vmk`YY`_"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F]b_ž>"f9X"l"f&\$)\$ l"? ge[US^bWd_ S` UW EfgV[Me [_ge[US^ fWbdWsf[a` ž

7 Ua Vf]X[Y. `7 Ua Vf]X[Y`I b]j Yfg]mDfYgg"

F YWca a YbXYX`F Ygci fWg

F YWca a YbXYX`F Ygci fWg

.

6UWž7 "D"9"f%+)' l7eeSk a` fZWF dgW3df aXB`Sk[Y =WkTaSdV ;` efdg_ W fe

HfUbg"K]`]Ua `A]hXY`"BYk `Mcf_`K "K "Bcfrcb`UbX`7c"% (-

.

6Yfa Ubž6 "f&\$\$\$l"@afWca_ fZWb[S` [efe TW UZ"BYk `<Uj Yb. `MU`Y`I b]j Yfg]mDfYgg"

.

6YfbUWžD"f%+*l" FZW[fWbdWsf[a` aX8dW UZ ea` Y"@cbXcb.; c`UbW"

.....

6i hž>"ž/ `8 fYmž gž@"f9Xg"l"f&\$\$\$l"B`Sk[Y i [fZ : [efack, F ZWZ[efad[US^S ` UZefe

SSSSS"t% , +L"

@cbXcb. F ci hYX[Y"

A i g[fUj YžA "/ 'G\Yfa Ubž6 "f&\$\$' Ł' B W d [Y 4 dSZ_ e" 7 Ua Vf]X[Y. '7 Ua Vf]X[Y
I b]j Yfg]hmDfYgg"

BYi a Ubbž: "f% - ' Ł' B W d _ S` UWbdSuf[UWē aXfZWeWhW fWW fZ S` V WYzFWW fZ
UW fg dVēžBYk 'Mcf_ 'GW]fa Yf"

DUfbW hžF "/ 'A Wd\Yfgcbž; "f&\$\$&Ł" FZWeU[W UWS` V bekUZa āYk aX_ ge[U
b W d _ S` UW 5 dWf[hWef dSfW [Mē Xad fWSUZ[Y S` V Wsd [Y" C I Zc fX. C I Zc fX
I b]j Yfg]hmDfYgg"

D]bcž8 "f% , \$Ł" FZWUSd[Wf S` V USd[Wf b'Sk[Y" @cbXcb. A UWā]`Ub"

DchYfž>"fθX"Ł"f&\$\$Ł" FZW5S_ TdVYWUa_ bS` [a` fa e[Y[Y" 7 Ua Vf]X[Y.
7 Ua Vf]X[Y I b]j Yfg]hmDfYgg"

E i Ubmž>">"A` B'Sk[Y fZW8 g fWf%+) & ŁHfUbg" 9Xk UfX'F Y]`m
HfUbg`UH X'UbX'fYdf]bH XžBYk 'Mcf_ 'H\Y': fYY'DfYgg%- **

F]b_ž>"fθX"Ł"f&\$\$) Ł"? ge[US^b W d _ S` UW EfgV[Mē [_ ge[US^ [f W d W S f]a` ž
7 Ua Vf]X[Y. '7 Ua Vf]X[Y I b]j Yfg]hmDfYgg"

F cgYbž7 "f&\$\$&Ł" 4 W W ZahW Re b[S` a ea` SfSe, S eZad Ua_ bS` [a` žBYk `< Uj Yb.
M U Y I b]j Yfg]hmDfYgg"

F cgYbV i a žG" f% - &Ł" B W d _ S` UWbdSuf[UWē [U'See[U b[S` a _ ge[U"

6`cca]b[hcb. 'bX]UbU' l b]j Yfg]mDfYgg"

GWXYb_Yfz<Y]bf]W 'f%- ' ' l'8[hWYdSbZ[U S` S'keWēz F Ydi V']g\YX'BYk 'Mcf_ '8cj Yf'Di V']WU]cbg'f%- *- l"

GYUhc bž'8ci [`Ug' f%- , ' l' FZWSdf ea` Y, S dWēSdJZ S` V [`Xad_ Sfa` Yg[VW'BYk
Mcf_ ; UfUbX"

Ghck Y`žF "'f%- - \$l'H[a ↑ fWUZ` [cgWS` V bWad_ S` UWbdSuf[UW[fZW'SfWW]YZfWW fZ
S` V Wsdk ` [WWWW fZ UW fgq]Wēz 7 Ua Vf]X[Y. '7 Ua Vf]X[Y' l b]j Yfg]mDfYgg"

HUfi g_]bžF]WUfXžf%- -) l'FW]f S` V SUf, 7eeSke a` _ge[U S` V bWad_ S` UWz CI ZcfX.
CI ZcfX' l b]j Yfg]mDfYgg"

Hfca `]mž; ">"f%+- %l'FZWH[cfgaea 8'gfWB'SkWēz HfUbg"5"'Dck Y`ž7 Ua Vf]X[Yž
7 Ua Vf]X[Y' l b]j Yfg]mDfYgg"

Hi f_ž8"; "' = 'Sh[WēUZg'W'f%- , &l'HfUbg" F Uma cbX'<U[[\ž@]bWē' b. l b]j Yfg]micZ
BYVfUg_U'DfYgg"

K YgfbYnž'K "'f&\$ \$' l' FZWbWēWUfi dā` Y` afW'BYk 'Mcf_ '5a UXYi g'DfYgg"

K]`]Ja cbž5"'f9X"l'f&\$ \$(l' ? ge[US^7j UW'W UW efdSfW[Wē S` V fWUZ` [cgWē fa W ZS` UW
bWad_ S` UWz CI ZcfX. CI ZcfX' l b]j Yfg]mDfYgg"

K c`žž? "f%- - \$l' ? SefWē aXfZW] WkTaSdV, ;` V[h[VgS^efk'WWW_ W fe [fZWb[S` a
_ge[UaX4SUZl : SkV` l ? al Sdf 4WfZahW l EUZgTWdf 5Zab[S` V 4dSZ_e"

6`cca]b[hcb. `X]UbU`I b] Yfg]mDfYgg"

5`Zyk `k YVg]hYg`cZa Ubm

I BGK `@]VfUfm

[\hfdg.##k k k "`\]VfUfm`i bgk "YXi "Ui #gh Xm](#)

f: cf`g]b[Yfg.

\hfd.##k k k "UhUbhUj c]WY`Yggcbg"Wta # cWU`hYWb]ei Y"\ha `

: cf`fyj]Yk `k f]h]b[.

fO\hfd.##b_dch`Wta #MUgg]WU`# f]hY`Zcfi g"\ha `2`7`Ugg]WU`a i g]WfYj]Yk g"< Yfy`mci

WU`b`gi Va]hU`fyj]Yk `Zcf`Yj U`i Uh]cb`df]cf`h` \Uj]b[`]hdi V`]g\YX`cb`hY`k YV"

\hfd.##k k k "Ui ghU`]Uba i g]WY`bhfY"Wta "Ui #

DfcZ]gg]cbU`a i g]WU`bg`dYfZcfa]b[`cb`Mci Hi VY

[\hfdg.##k k k "UWUXYa \]U"YXi #&*\)' *- #6Ymc bXSh YS`hYfdfyUh\]cbScZSA i g\]W](#)

[\hfdg.##gcWYma i g\]WU`Ycfm`cf\] #gcWY`hYg#bhfYgh`dYfZcfa UbWU`bU`mg\]g#\]V`lc\[fUd`m](#)

7ci fgY`9j U`i Uh]cb`UbX`8Yj Y`cda Ybh

Gh XYbhZYXVUW`k]`VY`[UhYfyX`h`fci [\`hY`a m9I dYf]YbW`gi fj Ymhck UfXg`hY`YbX`cZ`hY`Wci fgY" `

hY'dUghhY'jbZfa Uhcb'[UH\YfYX'\Ug'VYYb'UW'X'i dcb'hc'W\Ub[Y'UgdYWg'cZhY'W'i fgY'UbX'Jg'XY'j' Yfm'

⇒ U[Y'7 fYX]h

6cX]Yg/ 'bHfZUWg'&\$%*

7F ⇒ CG

7F ⇒ CG'Dfcj jXYf'7cXY.'\$\$\$- , ;