



# IEST5021

7 cfdcfUHŸ`9bj ]fcba YbŸU`Gi ghU]bUV`]hmiF Ydcfh]b[

HYfa`Hk c`##`&\$%-

GWXcc`cZ<i a Ub]hYg`UbX`@Ub[ i U[ Yg`##`I BGK`..5ftg`UbX`GcWU`GwYbWg

7ci fgY`Cj Yfj ]Yk

`GHUZZ7cbhUWhi8YHU]`g`

`7cbj Ybcfg`

B Ua Y	9a U]`	5j U]UV]`]m	@cWU]cb	D\cbY
5Ufcb`A U[ bYf	U"a U[ bYf4 i bgk "YXi "Ui	9a U]`WcbUWh dfYZffYX"A YY]b[ g Vm5ddc]bha YbH		

GWXcc``7cbhUWhi`bZcfa U]cb

GWXcc``cZ<i a Ub]h]Yg`UbX`@Ub[ i U[ Yg

@cWU]cb. `GWXcc``C Z]WZ`A cfj Yb`6fck b`6i ]X]b[ ž@Yj Y``&ž&),

CdYb]b[ `<ci fg.`A cbXUm!`: f]XUmž`- Ua `!`) da

D\cbY. `ž\*%&`-' , ) `%\*, %

: U! . `ž\*%&`-' , ) , +\$)

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

7ci fgY'8YHJ]`g

7fYX]h'Dc]bHg '\*`

Gi a a UfmcZh\Y'7ci fgY

# 5ggYgga5ggYgga Ybh

: i f\Yf[ i ]XUbW' dfcj ]YX' ]b`WUgg'UbX'j ]U'A ccX'Y"

## 5ggYgga YbhHUg\_g`

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UH	Gh XYbh@YUfb]b[ Ci hWta Yg`5ggYggYX
@]hYfUhi fY`F Yj ]Yk 5gg][ ba Ybh	' \$i	8i Y`&k YY_g`UZhf`h.Y`Zfgh k YY_`cZ]bhYbg]] Y`WUggYg	%z
; fci d`DfYgYbhUH]cb`	&\$i	C b`h.Y`UghXUmicZ`h.Y`gYWtbX k YY_`cZ]bhYbg]] Y`WUggYg	%z&z
hX]j ]Xi U`5gg][ ba Ybh	) \$i	8i Y'8UH`H65z`hck UfXg`h.Y YbX`cZ`hYfa "	

Gi Va ]gg]cb' bchYg.C b!WJa di g'ghi XYbtrg'dfYgYbh]b'WUgg/X]ghUbW'ghi XYbtrg'gi Va ]hU'dck Yfdc]bhk ]h  
Ui X]c'j ]U'A ccX`Y"

Hi fb]hb'gYH]b[ . H\]g'Ugg][ ba Ybh]g'gi Va ]H'X'h'fci [ \ 'Hi fb]hb'UbX'ghi XYbtrg'Xc' bchgYY'Hi fb]hb  
g]a ]Uf]mifYdcftrg"

5ggYgga Ybh' . 'bX]j ]Xi U`5gg][ ba Ybh

GHUfhXUH'.

@Yb[ h. " \$\$\$'k cfXg

8YHJ]g. 'Gh XYbtrg'k ]`dfYdUFY'Ub ]bX]j ]Xi U`fYdcftrg'Z' \$\$\$'k cfXg'Z'ca 'U'W'c]W'cZ'hd]Mg'" K f]H'Yb  
ZYXVUW\_": ]bU`UggYgga YbhicZ'W'i fgY

5XX]h]cbU`XYHJ]g.

GYY'A ccX`Y'Z'f'YI fU'XYHJ]g

Gi Va ]gg]cb' bchYg.Gi Va ]hj ]U'A ccX`Y

Hi fb]hb'gYH]b[ . H\]g'Ugg][ ba Ybh]g'gi Va ]H'X'h'fci [ \ 'Hi fb]hb'UbX'ghi XYbtrg'Xc' bchgYY'Hi fb]hb  
g]a ]Uf]mifYdcftrg"

5 hYbXUbW`F Yei ]fYa Ybhg

Gh XYbhg`UFY`ghfcb[ `mYbWci fU[ YX`hc`UhhYbX`U`WUggYg`UbX`fYj ]Yk`YWh`fY`fYWcfX]b[ g"

7 ci fgY`GWXYXi `Y

[J \]Yk`WUgg`hja`YhUV`Y](#)

H]a`YhUV`Y`

8 UHr	HmdY	7 cbhYbh
K YY_`%cZHfa fWca`a`YbW]b[ ``>i`bYŁ A`cbXUmUbX`Hi`YgXUm	6`YbXYX	Hk`c`Z`XUm`cZ]bhYbg]j`Y`k`cf_g`cdg`]b`gYa`]bUf`ghmY":`cW`g`]g`cb`dfUW]VW`g`cZWcfdcfUH`Ybj`]fcb`a`YbH`fYdcfh]b[ "
K YY_`+`cZHfa fWca`a`YbW]b[ `%>i`mŁ A`cbž`Hi`YgžK`YX	6`YbXYX	H\`fY`Z`XUm`cZ]bhYbg]j`Y`k`cf_g`cdg`]b`gYa`]bUf`ghmYž`k`]h`gh`XYbhdfYgYbH]cbg`cb`h`Y`Z]bU`XUm`7`UgY`gh`XmZcW`g"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

H\YgY`k]`VY`dfcj ]XYX`j ]U`mci f`A ccX`Y`g]h`zi`g]b[ `h`Y`@9; 5B HC`gmg`h`a ž`UbX`j ]U`mci f`ck b`fYgYUfW`"

F YWca a YbXYX`F Ygci fWg

H\YgY`k]`VY`dfcj ]XYX`j ]U`mci f`A ccX`Y`g]h`zi`g]b[ `h`Y`@9; 5B HC`gmg`h`a ž`UbX`#`f`j ]U`mci f`ck b`fYgYUfW`"

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

: YYXVUW`k]`VY`[ U`h`Y`f`Y`X`j ]U`A m`9l dYf]YbW`" DfYj ]ci g`W`ca a YbUfmg]i [ [ Yg]h`h`Y`b`Y`Y`X`Z`c`f`Z` f`h`Y`f`  
]b`h`[ f`U`h`c`b`c`Z`c`b`!`]b`Y`U`b`X`]b`!`W`U`g`g`U`W`j ]m`i`8`Y`j`Y`c`d`a`Y`b`h`g`U`W`f`c`g`g`h`Y`A`9`A`d`f`c`[`f`U`a`i`[ ]j`Y`Z`c`W`g`i`c`h`h`Y`  
Yl dYf]YbW`c`Z`X]g`h`U`b`W`g`h` X`Y`b`h`g`U`b`X`h`Y`V`Y`h`Y`f`i`g`Y`c`Z`c`b`!`]b`Y`Z`c`f`i`a`g`U`b`X`]b`X`Y`d`Y`b`X`Y`b`h`f`Y`g`Y`U`f`W`V`m`  
g`h` X`Y`b`h`g`"





5 WUXYa ]W<c bYghmiUbX '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 gž Zca 'XY`]VYfUh'`WXYUh]b[ 'h'UWVXYbU`miW'cdm]b[ 'Zca 'U'gci fW'k ]h'ci 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'h'`hY'cf][ ]bU`hI hcf']XYU'k ]h'ci hUW\_bck `YX[ ]b[ 'hY



