

IEST5005

9bj]fcbaYbHU`'7caaib]WUH]cb.'8]gWcifgY'/'9WcWi`hifU`AYUb]b['GmgHYag

7ci fgY[·]Cj Yfj]Yk

GHJZZ7cbHJWh78YHJ]`g

7 cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
HYa U'A]`ghY]b	hYa U"a]`ghY]b4 i bgk "YXi "Ui	8 8	A cfj Yb'6fck b '*('fcf'cb`]bY j]U'HYUa g'Xi Y hc'X]gHUbV¥ 'YUfb]b['cf 7 cj]XŁ	

GW&cc``7cbHJWhr≢bZcfaUh]cb

7ci fgY[·]8YHJ]`g

7 fYX]hDc]bhg***

Gi a a UfmcZhXY7ci fgY

H\]gʻWci fgYʻYI d`cfYgʻWca a i b]WUhj Yʻk Umgʻ\i a UbgʻdfcXi WYʻUbXʻHfUbgZcfa ʻYbj]fcba YbhUʻ`UbXʻW ʻhi fUʻ _bck `YX[YgʻUbXʻfY`Uh]cbg" Mci ʻk]``ZcW gʻcb``cWU``UbX`[`cVU``a Ub]ZyʻgHUh]cbgʻcZX]gWci fgYgʻ-cfʻg\UfYX k UmgʻcZa U_]b[`a YUb]b[žZfUa]b[`]ggi YgžUbXʻZcfa]b[`_bck `YX[Y`-`UbX`YI Ua]bYʻh\Y]f`]bhYffY`UhYX Ybj]fcba YbhU``UbX`gcW]cW``hi fU``fYj YfVYfUh]cbgʻUhYj YfmXUmUbX`ghfi Wi fU``gWU`Yg"`H\Y`Wci fgY`g]hi UhYg "h\Y`Ybj]fcba Ybh'`Vch `UgʻUWhj Y`mgcW]U``mWcbghfi WhYX`h\fci [\`Wca a i b]WUh]cb`UbX`UgʻXYYd`ma UhYf]U``m YI dYf]YbWYX`h\fci [\`a cfY!h\Ub!\i a Ub`fY`Uh]cbg"`=b`[U]b]b[`U`XYYdYf`i bXYfgHUbX]b[`cZh\Y`fc`YgʻcZ Wca a i b]WUh]cbžcf`X]gWci fgYž]b`g\Ud]b[`WcbhYa dcfUfmYbj]fcba YbhU``cf]YbhUh]cbgžmci `k]```U`gc`ZcW gʻcb fYghcfUhj Y`Wca a i b]WUhj Y`k UmgʻZcfk UfX"

7cifgY@YUfb]b[CiHWcaYg

- %" =XYbhJZmh\Y`W\U``Yb[Yg`cZXYZ]b]b[`UbX`Wcaaib]WUh]b[`Wcad`YI`Ybj]fcbaYbhU``dfcV`Yag`hc`U`k]XY UiX]YbWY"
- &" 7 f]hjWU``mfYZYWicb`Wcaaib]WUhjcb`UbX`W``hifU``dfcWYggYg`UbX`WcbhYI hg`h\UhiWcbghfi WhžfYdfcXi WYž UbX`hfUbgZcfa`Ybj]fcbaYbhU``dYfWYdhjcbg`UbX`UWhjcbg"
- '"91d`U]b`YWcW`h fU`h\Ycf]Yg`cZWcaaib]WUh]cb"
- ("I gY'Wca a i b]WUh]cb'UbX'YWcW `h fU``fYgYUfWX 'hc'XYWcbghfi WbźWf]h]WU``mi]bj Ygh][UhYźUbX'fYYbj]g]cb Ybj]fcba YbhU``fY`Uh]cbg"

HYUW]b[GhfUhy[]Yg

@YUfb]b[`]b'h,]g'Wci fgY'Ya d\Ug]nYg']bglfi Wrcf!ZUW]']HUYX'UbX'gh XYbHXf]j Yb'Wf]h]WU``UbX'WfYUh]j Y'gYa]bUf! VUgYX'YI d`cfUh]cbž'Ug'k Y```Ug'ci HcZWUggfcca 'YI dYf]YbWrg"'H\]g'gcfhcZ`YUfb]b[`fYei]fYg'UWf]j Y]bX]j]Xi U``UbX'[fci d'dUfh]W]dUh]cb"'Nci 'k]``XYYd`mYb[U[Y'k]h\'h\Y'fYUX]b[g'VYZcfY'WUgg'a YYh]b[g']b cfXYf'hc'UWf]j Y`mdUfh]W]dUhY']b'X]gW gg]cbž'YI YfW]gYgž'Ugg][ba Ybhgž'UbX'YI dYf]Ybh]U``Z]Y'X'gh X]Yg'UbX Yb[U[Ya Ybhg"

5ggYgga Ybh

5 WcffYWimigYX;gVX;c`Uf`mfYZYfYbWjb[`gmghYa`]g`Wcadi`gcfmf5D5 fYZYfYbWjb[`gmghYa`]g`dfYZYffYXŁ"'=Z mci`UfY`ibZJa]`]Uf`k]h`UWUXYa]WWcbjYbh]cb`k]h`WjhUh]cbgž`YbgifY`mci`Wcbgi`hIBGK [i]XY`]bYg.`\hndg.##ghiXYbh'ibgk"YXi"Ui#\ck!Xc!]!WjhY!Y`YWhfcb]WgcifWYg`

5ggYgga YbhHUg_g

5ggYgga YbhHJg_	K Y][\h	8iY`8UHY	GhiXYbhi@YUfb]b[CihWcaYgʻ5ggYggYX
K YY_`mF YUX]b[5ggYgga Ybh	(\$1	Bch5dd`]WUV`Y	%ž&Ž
:]Y`X`ghiX]Yg`UbX`Z]Y`X`ghiXm fYZYWN]cb`dUdYf`	*\$I	D`YUgY`gYY`UXX]hjcbU``XYhU]`g VY`ck "	%ž&Ž

5ggYgga Ybh8YHJ`g

5ggYgga Ybh% K YY_`mF YUX]b[5ggYgga Ybh

5XX]h]cbU``XYhJ]`g.

:]Y`X`Ghi Xm`F Ydcfhg`Xi Y. ** `C WrcVYfž`&+ `C WrcVYfž`%+ `B cj Ya VYf"`

:]Y`X`Ghi XmFYZYWGcb`DUdYf`XiY`'\$`BcjYaVYf"`

GYY'WUgg'A ccX`Y'Zcf']bghfi Wi]cbg'UbX'YI dYWiUh]cbg"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hYX`h\fci [\`Hi fb]h]b`UbX`ghi XYbhg`Xc`bchgYY`Hi fb]h]b g]a]`Uf]hmifYdcfhg"

FYgci fWg

DfYgWf]VYX F Ygci fWyg

5^wWci fgY`fYUX]b[g`UbX`UXX]h]cbU``fYgci fWYg`k]^wVY`ZYY`mUVWYgg]V`Y`j]U`WUgg`A ccX`Y`g]h/"`

FYWca a YbXYX⁻FYgci fWYg

B#5

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

A m91 dYf]YbWY k]``VY`i gYX'Zcf`Yj U`i Uh]cb`Uhh\Y`YbX`cZh\Y`Wci fgY"`Ghi XYbhZYYXVUW_`YUW\`mYUf`\Ug UW¶j Y`mg\UdYX`h\]g`Wci fgY`hc`VY`k`\Uh]h`]g`hcXUm'

Gi Va]gg]cbcZ5ggYgga YbhHUg_g

Hi fb]h]b Gi Va]gg]cb

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UhYa dhjb['kc'gi Va]hmci f'Ugg][ba Ybhih fci [\ 'Hi fb]hjbž'd'YUgY hY'Yd\cbY'9I hYfbU'`Gi ddcfhcb'-',) '' ' %cf'Ya U]`'h Ya 'cb'YI hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui '"'Gi ddcfh \ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-') .\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUfŁ''Zmci UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi 'hk]h 'Hi fb]hjb'mci 'a UmUdd`mZcf'Ub'YI hYbg]cbžVi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU'`Gi ddcfhfU'cb['k]h 'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc]bWi XY'Ug'Yj]XYbWY'hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUhjcb'''Zmci 'Ya U]`'9I hYfbU'`Gi ddcfhimci 'k]`

5WUXYa]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[`h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[`h\Ya `Ug`mci f`ck b"`=h`WUb`hU_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b[`hc`UVW]XYbhU``mWcdm]b[`Zfca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug'U'gh'XYbh'Uh'I BGK
 VY`Uk UfY`cZd`U[]Uf]ga ž'Wcdmf][\hz`I BGK 'Gh'XYbh'7cXY'cZ7cbXi Wh'UbX'5WWYdHJV`Y`I gY`cZ IBGK =7 HFYgcifWgDc`]Wm

5₩UXYa]W=bZcfaUh]cb

: cf^{*}YggYbhJU^{**}gh XYbh^{*}]bZcfa UhJcb^{*}fY^{*}UhJb[^{**}hc.

- fYei Yghg Zcf Yl hYbg]cb/
- `UhY `gi Va]gg]cbg `[i]XY`]bYg/
- fYj]Yk cZa Uf_g/
- I BGK '<YU`h\`UbX'GUZYmidc`]W}Yg/
- YI Ua]bUh]cb'dfcWYXi fYg/
- gdYWJU``Wcbg]XYfUH]cb`]b`H\Y`Yj YbhcZ]``bYgg`cf`a]gUXj Ybh fY/
- gh XYbhYei]hmUbX'X]gUV]`]hm/
- UbX'ch\Yf'YggYbh]U``UWUXYa]W]bZcfa Uh]cbž'gYY

<u>htdg.##k k k "Ufhg"i bgk "YXi "Ui #W ffYbHgH XYbhg#UWUXYa]W]bZcfa Uh]cb#dfchcWc`g![i]XY`]bYg#</u>