

IEST7500

9bj]fcba YbłU``A UbU[Ya Ybh`9b[]bYYf]b[': i bXUa YbłU`g

7 ci fgY[·]Cj Yfj]Yk

`GHJZZ`7cbHJWh`8YHJ]`g`

'7cbj Ybcfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
7c`]b`GU`HYf	WgU`HYf4 i bgk "YXi "Ui	Uddc]bhaYbhgʻj]U YaU]`		

GWXcc``7cbHJWhi=bZcfaUh]cb

GWXcc``cZ<iaUb]ŊYg'UbX'@Ub[iU[Yg

@cWUhjcb. `GW&cc``C ZJWYžA cfj Yb`6fck b`6i]`X]b[ž@Yj Y``&ž&),

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

D\cbY. Ž*%&'-',) %*, %

: UI . Ž*%&'-' ,) ', +\$)

9a U]`. <u>\U`4 i bgk "YXi "Ui</u>

7cifgY[·]8YHJ]`g

7 fYX]hDc]bhg ***

Gi a a UfmcZh\Y'7ci fgY

H\]gʻZ bXUa YbHJ``_bck `YX[Y`f! ? ŁWći fgY`]gʻ]bH/bXYX`df]a Uf]`mZcf`A UgH/fgʻcZ9bj]fcba YbHJ` A UbU[Ya Ybhghi XYbhgʻk \c`Xc`bch\Uj Y`Ub`Yb[]bYYf]b[`VUW_[fci bX"`+i]bHfcXi WYg`[YbYfU``Yb[]bYYf]b[UddfcUWXYg`UbX`ghi X]Ygʻh\Y]f`fY`Uhjcb`hc `YWć`c[]WU``gi ghU]bUV]`]m"`+b`h\Y`Wći fgY`mci `UbU`mgY`h\]g fY`Uhjcbg\]d`]b`X]ZYfYbhgcWjc!YWćbca]WWćbH/I hgžX]ZYfYbhgcWjc!YWćbca]WWćbH/I hgž]bWi X]b[`WjhJYgžfi fU` UbX`fY[]cbU``UfYUgžUbX`XYj Y`cd]b[`Wći bHf]Yg"`Nci `k]``UXXfYgg`h\Y`HYbg]cb`VYfk YYb`j Uf]ci gʻZcfa gʻcZ hYWkb]WU``_bck `YX[Yžfh\Y`fc`Y`cZhYWkbc`c[m]b`h\Y`[`cVU``YWćbca mž'h\Y`fY`Uhjcb`VYfk YYb']b[]bYYf]b[`UbX gi ghU]bUVY`YXYj Y`cda YbhUbX`h\Y`fc`Y`cZYb[]bYYf]b[`]b`Ybj]fcba YbfU``a UbU[Ya Ybh'Nci `k]``VY`HU_Yb h\fci [\`j Uf]ci g`WJgY`ghi X]Yg`cZfYU``Ybj]fcba YbfU``dfcV`Ya g`UbX`k]``VY`YbWći fU[YX'hc`]XYbhjZmk \YfY hYWkbc`c[]WU``gc`i hjcbg`UfY`Uddfcdf]UhY`UbX`k \YfY`h\YmUfY`]bUddfcdf]UhY`cf`]bUXYei UhY''`9I Wi g]cbg.`H\]g

5ggYgga Ybh

GYY'A ccX`Y'Zcf`XYHJ]`YX`]bZcfa Uh]cb`UVci hUggYgga YbhHUg_g"

5ggYgga YbhHUg_g

5ggYgga YbhHJg_	K Y][\h	8iY`8UHY	GhiXYbhï@YUfb]b[CihWcaYgʻ5ggYggYX
DUfh]W]dUh]cb	%\$I	&&#\$+#&\$%-`\$(.\$\$`DA	%ž)
FYj]Yk 'cZFYUX]b[g'	' \$I	Bch5dd`]WUV`Y	%ž&ž
; fcididfc?YWridfYgYbHUHjcbi	' \$I	Bch5dd`]WUV`Y	%ž&ž ž(
FYgYUfWX [.] FYdcfh	' \$I	%* <i>#</i> \$, #&\$%-`\$(.\$\$`DA	&ž ž)

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh'% DUfhjWjdUhjcb

GHUfh'XUHY.

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

8YHJ]`g. %cf`&`WUgg`YI YfW]gYg`fa UI`) \$\$`k cfXgEUbX`dUff]W]dUf]cb`fbb!WUa di gECF`cb`]bY`X]gW gg]cb dcghg`fX]gHUbWY`gh`XYbhgEcZa UI`) \$\$`k cfXg`dYf`k YY_`Zcf`dfYgWf]VYX`k YY_g

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

:]Y`X`lf]d`fYdcfll`GYY`A ccX`Y`Zcf`Z fl\Yf`XYlU]`g"

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

5ggYgga Ybh& FYj]Yk cZFYUX]b[g

GHUfh'XUHY.

@Yb[h\.`) \$\$ k cfXg YUW

8YHJ]`g. `G\cfhk YY_`mfYj]Yk g`cZfYUX]b[gža UI `) \$\$`k cfXg`YUW\ 'Zcf'' `k YY_g`Ug`gY`YWYX`Vm gh XYbhgK f]hYb`ZYYXVUW_

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

G\cfhK YY_`mfYj]Yk g`UfY`Xi Y`Uh(da `cb`Hi YgXUm]b`K YY_g`&ž(`UbX`*"`f]"Y"`>i bY`%%ž`>i bY`&) žUbX`>i `m - Ł"`GYY`A ccX`Y`Zcf`Z fh\Yf`XYfU]`g"

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

5ggYgga Ybh' .; fci d dfc YWhdfYgYbHJh]cb

GHJfhXUHY. Bch5dd`]WUV`Y

@Yb[h\.") a]bi hYg

8YHJ]`g. ; fci d`dfc YWidfYgYbHJH]cb`cb`Ub`Yb[]bYYf]b[`gc`i H]cb`Zcf`Ub`Ybj]fcba YbHJ``dfcV`Ya "`A UI '') a]bi HYg`]bWi X]b[`ei YgH]cb`H]a Y"K f]HHYb`UbX`J YfVU``ZYXVUW_

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

DfYgYbHJh]cbg`k]```VY`]b`WUgg`Xif]b[`K_YY_g`-`UbX`%\$"`GYY`A_ccX`Y`Zcf`Z_fh\Yf`XYHJ]`g"

Hi fb]h]b'gYh]b[.'H\]g']g'bchU'Hi fb]h]b'Ugg][ba Ybh

5ggYgga Ybh(.FYgYUfWXFYdcfh

GHUfhXUHY.Bch5dd`]WUV`Y

@Yb[h\."\$\$\$`kcfXg`faUlŁ

8YHJ]`g. `HYW\bc`c[mUggYgga YbhfYdcfhž'&) \$\$`hc`' \$\$\$`k cfXg`a UI]a i a k f]HYb`ZYXVUW_`dfcj]XYX

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

GYY'A ccX`Y'Zcf'Z fh\Yf'XYhJ]`g"

Hi fb]h]b'gYh]b[.'H\]g']g'bchU'Hi fb]h]b'Ugg][ba Ybh

5HYbXUbWYFYei]fYaYbhg

Ghi XYbhgʻUfYʻghfcb[`mYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj]Yk ``YWhi fYʻfYWcfX]b[g"

7 ci fgY GWX YXi `Y

<u>J]Yk WUgg'hja YHJV`Y</u>

H]a YHJV`Y'

8 UHY	Hmd Y	7 c bhYbh
K YY_`%`'`>i bY`!`+`>i bY	6`YbXYX	-blfcXi Wijcb. '9b[]bYYfg'UbX'GcWjYhm' : cf'U```ghi XYbhgž'Vch, 'ZUWY'hc'ZUWY'UbX X]ghUbWYžcb`]bY'UWijj]hjYg'k]``VY']bhY[fUhYX h\fci [\ci hih\Y'hYfa "'8]ghUbWY'ghi XYbhg'k]``Yb[U[Y j]U'Zcfi a g'UbX'j]fhi U`'UhhYbXUbWY']b'WUggYg"'7 UgY ghi XmUbX'dfc'YWiVUgYX'`YUfb]b['k]``]bHfcXi WY'_Ym WcbWYdhgž'Z fh\Yf'YId`cfYX'h\ci [\`Wca dYHDbWh VUgYX'hUg_g'UbX'ga U```[fci d'UWij]]hjYg"'Cb!`]bY k cf_'k]``U'gc'gi ddcfh'Z]Y'X'UWijj]hjYg'-gYY'K YY_g') UbX'*'VY`ck ": i h\Yf'XYHU]`g'cb'h\Y']bhY[fUhjcb'cZcb! `]bY'hi]hjcb'k]``VY'dfcj]XYX'j]U'mci f'A ccX`Y'g]hY"
K_YY_`&.`%\$`>i_bY`!`%(>i_bY	6`YbXYX	B Uhi fU``F Ygci fWYg"
K YY_'' . %+`>i bY`!`&% >i bY	6`YbXYX	7 cbgi a Yf'; ccXg"
K YY_`(.`&(`>i bY`!`&, >i bY	6`YbXYX	; iYgh`YWhifY.'7`cg]b[`h\Y`@ccd"
K YY_`).'%'>i`m!')`>i`m	Cb`]bY`5WMjj]hm	IVfUb`=b2fUghfiWhifY"`H\Y`cb!`]bY`kcf_`]bWiXYg dfYdUfUh]cb`Zcf`bYIhkYY_foj`Z]Y`X`UWh]j]mm"
K_YY_`*.`, `>i `m!`%&`>i `m	:]Y`Xk cf_	I VfUbʻ≢bZfUghfi Whi fY"
K_YY_`+.`%)	6`YbXYX	; i Yghi@YWhi fY`fHVWŁ` <ci gy\c`x`fki="" td="" ughy"fi<=""></ci>
K_YY_', .`&&`>i_`m'!`&*`>i_`m	6`YbXYX	9b[]bYYf]b[`UbX`8Yj Y`cda Ybh
K YY_''&-'>i`m!'& 5i[igh	6`YbXYX	; i Ygh`YWi fY`fN/WŁ [`] 5Vcf][]bU``DYfgdYWi]j Yg"
K YY_`%\$.`)`5i[igh!'- 5i[igh	6`YbXYX	

FYgci fWg

DfYgWf]VYX F Ygci fWfg

GYY A ccX`Y Zcf`XYHJ]`g"

FYWca a YbXYX⁻FYgci fWYg

GYY'A ccX`Y'Zcf'XYHJ]`g"

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

7 ci fgYgʻUfYʻdYf]cX]WU``mfYj]Yk YXʻUbXʻghi XYbhgʻZYYXVUW_`]gʻi gYXʻhcʻ]a dfcj Yʻh\Ya "`: YYXVUW_`]g [Uh\YfYX`Zfca `ghi XYbhgʻi g]b[`a m9I dYf]YbWY"`Ghi XYbhgʻUfY`YbVci fU[YX'hcʻWca d`YhYʻh\Y]fʻgi fj YmgʻVm UVWYgg]b[`h\Y`dYfgcbU`]gYX`k YV``]b_`j]Uʻh\Y`A ccX`Y`Vci fgY`g]hY"

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

D`U[]Uf]ga `]g`i g]b[`f\Y`k cfXg`cf`]XYUg`cZcf\Yfg`UbX`dfYgYbh]b[`f\Ya `Ug`mci f`ck b"`=fiWUb`hU_Y`a Ubm Zcfa gžZfca `XY`]VYfUHY`W\YUh]b[`fc`UWV]XYbhU``mWcdm]b[`Zfca `U`gci fWFk]h\ci hUW_bck `YX[Ya Ybh'

I BGK '[fci dg'd`U[]Uf]ga ']bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

7 cdm]b[. `i g]b[`h\Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h\Y`cf][]bU``hYI h`cf`]XYU`k]h\ci h`UW_bck`YX[]b[`h\Y

5WUXYa]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/