



IEST5012

9bj]fcba YbHJ`A UbU[Ya YbhDfc YWhDUdYf

HYfa 'H\fYY''##'&\$&\$

7 ci fgY⁻Cj Yfj]Yk

GHJZZ7cbHJWhi8YHJ]`g

7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
HYa U'A]`ghY]b		Xif]b[`Wcbgi`HUH]cb \cifg fKYXbYgXUmgž%%	A cfj Yb 6fck b ' * ('fcf cb`]bY j]U HYUa g Xi Y hc X]ghUbWY YUfb]b['cf 7 cj]XŁ	

GWXcc``7cbHJWhi=bZcfaUhjcb

GWXcc``cZ<iaUb]hJYg'UbX'@Ub[iU[Yg

@cWUhjcb. `GW&cc``CZJWYžA 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>

7ci fgY[·]8YHJ]`g

7 fYX]hDc]bhg⁻‰⁻

Gi a a UfmcZhXY7ci fgY

H\Y`[cU``cZh\]gʻWci fgY`]gʻhcʻYbUV`Yʻgh XYbhgʻhcʻk f]hYʻUʻgi dYfj]gYXʻYbj]fcba YbhU``a UbU[Ya YbhfYgYUfW dUdYf"'H\]gʻfYgYUfW. Wci `Xž'Vi hXcYgʻbch\Uj YʻhcʻVYž'VUgYXʻcbʻa UhYf]U``[Uh\YfYX`Xi f]b[`h\Y 9bj]fcba YbhU``A UbU[Ya YbhF YgYUfW.ʻ=bhYfbg\]dʻfH9GH) \$\$('E''H\Y'Wci fgY`XcYgʻbcha U]bhU]bʻfY[i `Uf`m gW\YXi `YX`WUggYg"'<ck Yj Yfžgh XYbhgʻUfYʻfYei]fYX'hc'dUfh]W]dUhY`]bʻcfU``dfYgYbhUh]cbgʻcbʻh\YʻdfcʻYWh dUdYfgʻhck UfX'h\Y`YbXʻcZh\YʻhYfa "'H\fci [\ci hh\Y`hYfa `cZh\Y`dfcʻYWžgh XYbhgʻk]``VY`k cf_]b[`k]h\cbY cf`a cfY`a i hi U``mU[fYYX`i dcbʻUWUXYa]Wgi dYfj]gcfgʻk \c`k]```fYj]Yk`dfc[fYggʻhck UfXʻh\Y`]bU``dfcʻYWh dUdYf`XcW a Ybh''H\]gʻWci fgY`]gʻUj U]`UV`Y`VmX]ghUbWf`gh Xm'

7cifgY`@YUfb]b[`CihWcaYg

%" 5dd`mfYgYUfWX a UbU[Ya Ybhg_]``g`hc `Ub`cf][]bU``fYgYUfWX 'dfc YWM' &" 5bU`mgY`UbX`]bhYfdfYhfYgYUfWX 'XUHU" ' " 7 ca a i b]WUhY`fYgYUfWX 'ZbX]b[q`]b`K f]hhYb`UbX`cfU``Zcfa Uhq"

HYUW]b[GhfUhy[]Yg

H\]gʻWci fgYʻU]a gʻrc YbUV`Yʻghi XYbrgʻ']b!XYdh\`UbX`cf][]bU``fYgYUfW\`h\fci [\`h\Y`k f]h]b[`cZU`fYgYUfW\ dUdYfʻi bXYfʻh\Yʻgi dYfj]g]cb`cZcbY`cf`a cfY`a i hi U``mU[fYYX`i dcb`UWUXYa]Wgi dYfj]gcfgʻk \c`k]`` gi ddcfhih\Y`XYj Y`cda YbhcZh\Y`Z]bU``dfc`YWhdUdYf`XcW`a Ybh'`H\Y`X]fYWhX`gi dYfj]g]cb`ghfUhY[m]b`h\Y Wci fgY`U]a gʻrc`XYj Y`cd`fYgYUfW\`g_]``gʻUbX`a Yh\cXgžhYUa k cf_`UbX``]U]gcb`k]h``U`dUfhbYf`cf[Ub]gUh]cb fk \YfY`fY`Yj UbHz`UbX`fYgYUfW\`dfYgYbhUh]cb`g_]``g"'H\]g`Wci fgY`]g`Uj U]`UV`Y`VmX]ghUbW'`ghi Xm]b`k \]W\ ghi XYbrg`UfY`gi dYfj]gYX`X]fYWhmVmUb`UWUXYa]Wgi dYfj]gcf"

5ggYgga Ybh

H\]gʻdfc?YWifYei]fYgʻ]b]hJUhji YʻUbXʻgYʻZX]fYWYXʻYUfb]b[ʻcbʻh\YʻdUfhcZh\Yʻghi XYbh]bʻWcbgi `hUhjcbʻk]h h\Y]f`W\cgYb`UbX`U[fYYX`i dcb`UWUXYa]WghUZgi dYfj]gcf`Zcf`h\Y`dfc?YWf`5ggYgga YbhYl dYWfUhjcbg`UfY k cf_YX`ci hUhih\Y`ghUfhcZh\Y`hYfa `cbY!cb!cbY`VYfk YYbʻh\Y`ghi XYbhUbX`h\Y]f`gi dYfj]gcf"`K Y`fYWca a YbX h\Y`ghi XYbhWcbhUWfi9bj]fcba YbhUbX`GcWjYmi; fci d`UWUXYa]Whc`VY`dchYbhJU``gi dYfj]gcfg`k \c`]g`U`[ccX Z[hZcf`h\Y`gdYWjZ]W_]bX`UbX`ZcW g`cZfYgYUfW\`h\Y`ghi XYbhk Ubg`hc`i bXYffU_Y"

5ggYgga YbhHUg_g

5ggYgga YbhHJg_	K Y][∖h	8iY`8UhY	GhiXYbhi@YUfb]b[CihWcaYgʻ5ggYggYX
Dfc YWi6f]YZ	%\$I	Bch5dd`]WUV`Y	%ž&
CfU``DfYgYbłUł]cb`	' \$I	Bch5dd`]WUV`Y	%ž&Ž
:]bU``fYdcfh	*\$I	Bch5dd`]WUV`Y	%ž&Ž

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% Dfc YWh6f]YZ

GhUfhXUhY.Bch5dd`]WUV`Y

8YHJ]`g.

5°) \$\$!k cfX°Vf]YZk \]W\`]bWi XYgʻUʻVUg]Wci h]bYʻcZh\Y`Ufh]WYʻhcʻVYʻXYj Y`cdYXžh\Y`dchYbh]U`ʻĉi fbU`fgŁZcf]hhcʻVYʻgi Va]hhYXž'h\Y`h]a Y`]bYʻZcf`XUhUʻUbU`mg]gʻUbXʻk f]h]b[ž'XYhU]`gʻcZk cf_`gh]``hcʻVYʻWcbXi WhYX" €X]j]Xi U``k f]hhYbʻZYYXVUW_ʻdfcj]XYX"

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

Dfc^YWiXYHJ]`g`hc`VY`k cf_YX`ci hcbY!cb!cbY`VYhk YYb`h\Y`ghi XYbhUbX`h\Y]f`U[fYYX!i dcb`UWUXYa]WgHUZ gi dYfj]gcf"

5ggYgga Ybh& CfU DfYgYbHJh]cb

GHJfhXUhY.Bch5dd`]WUV`Y

8YHJ]`g.

#JX]j]Xi U``%) !a]bi hY`cfU``dfYgYbhUh]cb`cZfYgYUfWX`dfcYWh"=#D!WUgg`ZYYXVUW_`dfcj]XYX"

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

8YHJ]`g`hc`VY`k cf_YX`ci hicbY!cb!cbY`VYhk YYb`h\Y`ghi XYbhUbX`h\Y]f`U[fYYX!i dcb`UWUXYa]WgHUZ gi dYfj]gcf"

5 HHYbXUbWY FYei]fYa Ybhg

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

7 ci fgY GWX YXi `Y

J]Yk WUgg ha YHJV Y

H]a YHJV`Y'

8 UHY	Hmd Y	7 cbhYbh
C 'K YY', 'GYdhYa VYf'!'- GYdhYa VYf		5 k YY_`mgW\YXi `Y`]gʻbchdfcj]XYX`\YfY"`8i f]b[ʻcf VYZcfY`h\Y`Z]fghk YY_`cZHYfa ž'h\Y`gWcdY`cZh\Y dfc`YWhbYYXgʻhc`VY`XYhYfa]bYX`VYhk YYb`mci `UbX mci f`U[fYYX`i dcb`UWUXYa]WghUZZgi dYfj]gcf"`5`` ch\Yf`gW\YXi `]b[`UbX`fYei]fYa YbhgʻZck `Zfca `h\]g YUf`m`YghUV`]g\a YbhcZh\Y`dfc`YWh

FYgci fWfg

DfYgWf]VYX F Ygci fWYg

Hc VY XYHYfa]bYX]b Webgi `HUH]cb k]h mci figi dYfj]geffgŁ

FYWca a YbXYX FYgci fWYg

Hc VY XYHYfa]bYX]b Webgi `HUH]cb k]h mci figi dYfj]geffgŁ

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

DfYj]ci gʻghi XYbhgʻ\Uj Yʻj Uʻi YX'h\YʻfYgYUfW\ʻdfcʻYWiUgʻUbʻcddcfhi b]hmhcʻfYWY]j Yʻa Ybhcf]b[ʻ]bʻfYgYUfW\

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