



ARTS3480

5XjUbWX:fYbWX5

HYfa 'C bY''##'&\$%-

7 ci fgY⁻Cj Yfj]Yk

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

'7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
A cb]ei Y`@Ui fU	a "`Ui fU4 i bgk [`cVU`"i bgk "YXi " Ui	0	,	f\$&L`-',)`! &'&%

GWXcc``7cbHJWhi=bZcfaUh]cb

GWXcc``cZ<iaUb]ŊYg'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 UfmcZh\Y'7ci fgY

H\Y': fYbWX!gdYU_]b['k cfX'fYdfYgYbhg'cbY'cZh\Y'V][[Ygh']b[i]gh]WncbYg']b'h\Y'k cfX'k]h`Ub'Ygh]a UhYX &+('a]``]cb': fYbWX!gdYU_Yfg'cb'U``') 'Wcbh]bYbhg'' =b'di fgi]b['mci f'ghi XmcZh\Y'`Ub[i U[Yžmci 'UfY'c]b]b['U f]W\žj]VfUbh'UbX'X]j YfgY'Wca a i b]mcZWcgY'hc'(-'a]``]cb`YUfbYfg'k cfX'k]X'''H\]g'Wci fgY'k]``'YY'dYfZ'Wh Zcf'mci ']Zmci 'U`fYUXm\Uj Y'U'gc`]X'_bck 'YX[Y'cZ: fYbW\fYei]j U`Ybh'c Zci f'gYa YghYfg'cZghi Xm]b['Uh i b]j Yfg]m`Yj Y`E'UbX'k]``YbUV'Y'mci 'hc'bchcb`m]a dfcj Y'mci f'k f]hYb'UbX'Ui fU`'Wca dfY\Ybg]cb'Vi hU`gc'hc Wca a i b]WUhY']XYUg']b'g\cfhYggUmg'UbX'X]gW gg]cbg''J cWUVi `UfmUbX'[fUa a Uh]WU`gffi Wfi fYg'UfY dfYgYbh'X']b'h\Y'WcbhYI hcZW'h fU``mfY'Yj Ubh']ggi Yg'UbX'mci f'`YUfb]b['k]``VY'Yb\UbWYX'k]h`cb`]bY Wca dcbYbhg'XYg][bYX'hc'a U_Y``Ub[i U[Y'UWei]g]h]cb'ZJghYf'UbX'a cfY'YZ]W]Ybh''BYk 'hYW\bc`c[]Yg'UfY'Ub]bhY[fU``dUfhcZh\Y'Wci fgY'UbX'k \c'_bck g3'Nci 'a UmYbX'i d']bhYfUWf]b['k]h`U'fcVch...]b`: fYbW\"

7cifgY`@YUfb]b[`CihWcaYg

- %"I bXYfgHUbX`UbX`fYgdcbX`hc`h\Y`a U]b`dc]bhg`UbX`gdYW]Z]WXYHU]`g`cZcfU``UbX`k f]hhYb`hYI hg`k]h\ Z]Wh]cbU``cf`ZJWhi U``WcbHYbH'
- &" DfcXi WY`g\cfhUf[iaYbhg`UVci hWi`hifU``UfhYZJWhg`gi W\`Ug`Z]`agž`Vcc_g`k]h\`WcbZ]XYbWY`UbX dfYW]g]cb
- ' "FYgdcbX'k]h\`Uddfcdf]UhY'dc`]hYbYgg'UbX'fYgdYWihc'X]ZYfYbWYg`]b'W ghca gž'Uhijhi XYg'cf'VY`]YZg

c```H\Y`gYWcbX``YWfi fY`ZcW gYg`cb`[fUa a Uf`hcd]Wg"`H\YgY`UfY`YI d`U]bYX`k]h`]b`h\Y`WcbhYI hcZh\Y h\Ya Uh]WWcbhYbhg`Wcj YfYX`Vmh\Y`dfc[fUa "`Hc`Yb\UbW'mci f``YUfb]b[`YI dYf]YbW'žU```YWfi fYg`k]```VY dfYfYWcfXYX`cb!`]bY`UbX`UWW'gg]V`Y`Uh`YUgh&XUmg`]b`UXj UbW//h\Ymk]```VY`Uff]W``UhYX`Ufci bX`h\Y d\]cgcd\mcZh\Y`Z]ddYX`WUggfcca.`FZWX{bbW U'Seeda__VWéUd[TWé S dWhWdeS^aXfdSV[f[a` S^fWSUZ[`Y i ZWdWefgVW fe YS[`Xdef Wj baegdWfa``W`__SfWd[S^agfe[VWaXU'Seeł gegS^k h[S dWSV[`Y ad WUfgdWh[VWaeł S`V fZW`U'See f[_W[e geVW fa Va fZWZSdVWdi ad] aXSee[_['Sf[`Y fZSf]`ai 'WY`WfZdagYZ efdSfWf[Wé egUZ Se bdaT'W__ ea h[`Ył V[eUgee[a` adVWTSfWéžfJ] UbXYfV]`hi b]j Yfg]mž'7 YbfY`Zcf`HYUW\jb['L''

H\Y'hihcf]U`g`k]```[]jY'mci 'h\Y'cddcfhib]mhc`XYjY`cd`mci f`]bhYfUWf]jY`g_]``g`UbX'hc`i gY'h\Y': fYbVX `Ub[i U[Y']b'WcbhYlhh\fci [\`ga U```[fci d`k cf_"'HYUVX]b[']g'WcbXi WfYX']b``Ub[i U[Y#Wca di hYf``UVcfUhcf]Yg h\UhU``ck 'Zcf``]ghYb]b[žfYWcfX]b[žj]Yk]b['j]XYc`a UhYf]U`g'UbX`i g]b[`=bhYfbYhfYgci fWYg"`5`j Uf]YhncZ `Ub[i U[Y'hUg_g']b'U```g_]``g'UfY']a d`Ya YbhYX'Vma YUbg'cZh\]g'hYW\bc`c[m''

H\YfY`]g'U`gc'U'dfc[fUa 'cZWca d`Ya YbHJfmk YY_`mHJg_g'hc'VY'XcbY'ci hg]XY'WUggYg'Ug'Ui hcbca ci g \ca Yk cf_"'Mci 'UfY'ghfcb[`mUXj]gYX'hc'Wca d`YhY']hi]b'cfXYf'hc']bWfYUgY'mci f'fY[i`UfY'WcbHJWkik]h\'h\Y `Ub[i U[Y'UbX'Z fh\Yf'XYjY`cd'mci f'g_]``g"'D'YUgYžbchY'h\UhidUfhicZ']hik]``VY'i gYX'Ug'U'VUg]g'Zcf'h\Y WfYUh]cb'cZ'h\Y'Wci fgY'UggYgga Ybh'

Mci "Ufy"YI dyWhyX"hc."

c```UHHYbX`H\Y`jcWUVi`Ufm'#W``HifY``YWHifYg`UbX`

c```ghi Xmih\Y`g`]XYg`cZh\Y`dfYj]ci g``YWi fY`UbX`fYj]gY`h\Y`WcbhYbhg`hUi [\hi

c^{···}dfYdUfY[·]]b[·]k f]h]b[^{··}Zcf[·]h\Y^{··}YWi fYg[·]fdfYdUfUh]cbg[·]a Um[·]]bWi XY.[·]fYUX]b[^{··}a UhYf]U[·]gžj cWUVi [·]Ufm YI YfW]gYgžj]XYc[·]XcW a YbhgžYhWŁ

c^{...}]gh/b[.]hc[.]h\Y^{..}YWi fYžHJ_Ybch/gUbXdUfh]W]dUh/UgfYei]fYXVmh\Y^{..}YWi fYf

c^{···}k UHWX 'H\Y'[fUa a Uf``YWH fYg`cb!`]bY'UbX'Xc'H\Y'fY`UHYX'UWHjj]HjYg'VYZcfY'Wca]b['hc'WUgg

c```UhhYbX'h\Y`]b!WUgg``YWi fYg'h\Uhk]```VY'i gYX'Zcf'k f]hhYb'dfUWjWY`UbX'YI YfWjgYg/

c```fYj]gY`f\Y`WcbhYbhg`cZdfYj]cig``YWnifYg`UbX`hihcf]U`g

c^{~~}gdYU_: fYbWX[~]Uh'U``'h]a Yg°

5ggYgga Ybh

HfUj Y``UffUb[Ya Ybhgʻa UXY`df]cf`UbX`UZhYf`h\Y`di V`]WUh]cb`cZ'h\]g`Wci fgY`cj Yfj]Yk `UfY`bch'U`j U`]X fYUgcb`Zcf`fYgW\YXi `]b[`cZ'Ubm'UggYgga Ybh'

5gggygggabhbhib<u>llg</u>g

5ggYgga Ybh'HJg_	K Y][∖h	8iY'8UHY	GhiXYbh@YUfb]b[CihWcaYgʻ5ggYggYX
Ei]n'	%) ı	Hi YgXUm\$)	&
DfYdUfYX ⁻ X]gW gg]cb ⁻	&) ı		

1	

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

=Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UhYa dhjb['hc'gi Va]hmci f'Ugg][ba YbhN 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 Um'Udd`mZcf'Ub'YI hYbg]cbž'Vi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU``Gi ddcfhfU`cb['k]h`Ubm'ch\Yf'fY`Yj UbhXcW a YbhgŁ'hc]bWi XY'Ug'Yj]XYbWi'hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUh]cb''`=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"`=hWUb`hU_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

IBGK [fcidg'd`U[]Uf]ga]bhc h\Y Zc``ck]b[WUhY[cf]Yg.

7 cdm]b[..i g]b[.ih,Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h,Y`cf][]bU``hYI h`cf`]XYU`k]h\ci hUW_bck `YX[]b[`h\Y gci fWF`cf`i g]b[`ei chUh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[YgžUfhUbX`XYg][b`dfc´YWfgž'Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf*g`]XYUg`cf`k cfXg`k]h\ci hWfYX]h"

=bUddfcdf]UhY`dUfUd\fUg]b[..7\Ub[]b[`U`ZYk`k cfXg`UbX`d\fUgYg`k \]`Y`a cghmfYhU]b]b[`h\Y`cf][]bU` ghfi Whi fY`UbX#cf`dfc[fYgg]cb`cZ]XYUg`cZh\Y`cf][]bU`žUbX`]bZcfa Uh]cb`k]h\ci hUW_bck`YX[Ya Ybh`H\]g`U`gc Udd`]Yg`]b`dfYgYbhUh]cbg`k \YfY`gca YcbY`dUfUd\fUgYg`Ubch\Yf'g`]XYUg`cf`k cfXg`k]h\ci hWfYX]hUbX`hc d]YW]b[`hc[Yh\Yf`ei chYg`UbX`dUfUd\fUgYg`]bhc`U`bYk`k \c`Yžk]h\ci hUddfcdf]UhY`fYZYfYbW]b["

7 c``i g]cb. k cf_]b[k]h ch Yfg Vi hdUgg]b[cZth Y k cf_'Ug U dYfgcb'g]bX]j]Xi U`k cf_'' 7 c``i g]cb U gc]bWi XYg dfcj]X]b['mci f k cf_'hc Ubch Yf gh XYbhVYZcfY h Y Xi Y XUhYžcf Zcf'h Y di fdcgY cZh Ya

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug`U`ghi XYbh'Uh'I BGK
- VY Uk UfY cZdU[]Uf]ga žWcdmf][\lbzi BGK Ghi XYbh7 cXY cZ7 cbXi Wh0bX 5WW/dhUVY I gY cZ I BGK '=7 H'F Ygci fW/g'Dc']Wh
- VY Uk UfY cZh Y gHUbXUfXg cZVY Uj]ci f YI dYWYX cZYj YfmcbY]b h Y I BGK Wca a i b]m
- `cWUHY'gYfj]WYg'UbX']bZcfa UHjcb'UVci hI BGK 'UbX'I BGK '@VfUfm

Gca YicZh\YgYiUfYUgik]``VYiZJa]`]Ufihcimci žich\Yfgik]``VYibYk"'; U]b]b[`Uigc`]Xii bXYfgHUbX]b[`cZU```h\Y fY`UhYXiUgdYWfgicZ9@=G9ik]``\Y`dimci ia U_Yih\Yia cghicZmci fighi X]YgiUhil BGK"' <u>\hhd.#qi VYWfii]XYg"`]VfUfm"i bgk"YXi"Ui #Y`]qY#UVci hY`]qY</u>

5WUXYa]W=bZcfaUh]cb

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

- fYei YghgʻZcfʻYl hYbg]cb/
 `UhYʻgi Va]gg]cbgʻ[i]XY`]bYg/
- fYj]Yk 'cZa Uf_g/
- I BGK < YU`h`UbX`GUZYhmidc`]WjYg/
- YI Ua]bUh]cb⁻dfcW/Xi fYg/
- ٠