



ARTS1810

: ci bXUhcgbg'cZDc`jhwg'UbX' bHyfbUhcgbU`F Y`Uhcgbg

HYfa`Cby`#`&\$&\$

7ci fgY`Cj Yfj]Yk

`GHJZ7cbhJWhi8YHJ]`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWjhcb	D\cbY
B]Wxc`Ug`5dc]Zg	b"Udc]Zg4 i bgk "YXi "Ui	K YXbYgXUmjz' !(F cca`%((- ' ,) `&(\$+
			A cfj Yb`6fck b	

GW\cc``7cbhJWhi`bZcfa Uhjcb

GW\cc``cZGcWjU`GWYbWg

F cca`%) -

A cfj Yb`6fck b`7&\$

Ya Uj].`gcgg4 i bgk "YXi "Ui

d\cbY. `\$&-' ,)`% \$+

7 ci fgY'8YHJ]`g

7 fYX]hDc]bqg '*`

Gi a a UfmicZhY'7 ci fgY

K \YfY'XcYg'dck Yf`jY]b'dc`]hVg3K \cgY'YI d'UbUhc]bg'UVci h\ck`hY'k cfX'k cf_g'UfY'j U'i YX'UbX'k \m3
H\]g'Wci fgY'k j`Yei]d'mci`k]h'gca Y'cZhY'g_]`g'bYW'ggUfmhc'VY[]b'Zcfa i`Uh]b[]mci f'ck b'Ubgk Yfg'hc
hYgY'ei Ygh]cbg"Mc`i`k j`VY]b]fci Xi W'X'hc`hY'jXYU'cZgh Xn]b[]dc`]hVgZ'Vch`Xca Ygh]WUbX'j]b]fci bUhc]bU'z
Ug'Ub'UWUXYa]W]gW]d]bYz'UbX'hc`gca Y'cZhY'_'YmUWUXYa]W]b] Yb]cbg'UbX'gh]bXUfXg'hUhUfY
]a dcf]b]h]c`hY'X]gW]d]bY. 'hY'jXYU'cZy]XYbW'VUgYX'Uf[i a Yb]z'Zc'fYI Ua d'Yz'UbX'hY'jXYU'cZYh]W]
gW'c'Ufg\]d"K Y'k j`U'gc'X]gW'gg'hY'Zcfa Uhc]b'cZhY'a cXYfb'gh]h'gmghYa`UbX'j]b]fci [UfY'hY
VcbW'dh U]g]b]c]b'cZhY'gh]h'U]b]Zcfa g'a i W'Vcb]hYa dcf]b]h]c'fm]b]X'df]UW]V']b'dc`]hVg'UhY
bUhc]bU'UbX'j]b]fci bUhc]bU'Yj Y"

5 gi Vgh]b]h]U'dUf]cZh]g'Wci fgY'jg'XYj chY'X'hc`hY'j]b]fci Xi W]cb'cZhY'a U]b'hYcfY]h]W'hfUX]h]cbg'hUh
Ub]a UfY'hY'gh Xmc]Zdc`]hVg'UbX'j]b]fci bUhc]bU'fY'Uhc]bg"CbY'cZhY'W'bfU'a YggU[Yg'cZhY'Wci fgY'jg
hUhX]ZYfYbh]hYcfY]h]W'Uddfc]UWYg[YbYfUf'X]ZYfYbh]a U[Yg'cZhY'k cfX'hU]hVi]X'cb'dUf]W'Uf
Uggi a dh]cbg" H\YfY'Zc'fYz'k \]Y'dYcd'Y'a Umi]b_]`hYmi_bck`k \Uh]hY'W'ffYbh]d]cV'Ya g'cZdc`]hVg'UbX
[]cVU'dc`]hVg'UfY'UbX'\ck`hc`gc] Y'hYa z'cbY'cZhY'U]a g'cZh]g'Wci fgY'jg'hc`U'Yf]h]c`hc`hYf'k Umg'cZ
gYY]b[]h]b[]g" H\]g'g\ci`X'U'ck`mci`hc`a U_Y'U'a cfY'Vcb]XYbh]XYW]g]cb'UVci h]mci f'ck b'gh]b]W'hc'k UfXg
dUf]h]W'Uf]ggi Yg'UbX'hc`UbU'mgY'hYgY'jggi Yg'a cfY'h]c]fci [\mz'Vi h]hg\ci`X'U'gc'a U_Y'mci`ei Ygh]cb'Vch
mci f'ck b'UbX'chYfg'fYdfYgYbh]h]cbg'cZhY'k cfX"

7 ci fgY '@YUfb]b[]Ci hWca Yg

%"

dfYgYbUhc'cb'cZj]XYc'W]dgžga U"! [fci d'UWVj]hYgžE / 5'gYgg]cbg'UbX'dU]f!k cf_"H\Y'YVh fYg'UfY
XYg][bYX'hc'gi dd'Ya Ybh]bXYdYbXYbhighi Xmcb'h\Y'Vc'i fgY'h.UhVY[]bg'fVi hig\ci 'X'bchYbXEk]h'WcgY
Yb[U[Ya Ybhk]h'h\Y'k YY_'mfYei]fYX'fYUX]b[g"@YVh fY'UHYbXUbVW']g'Vca di 'gcfm!Vi h]hk]"VY'k Y"
k cft'h']h'

&"HI HCF -5@G

Hi hc'f]U'g'U'ck 'mci 'hc'X]gW'gg'ei Ygh]cbgžhYa Yg'UbX']ggi Yg'Uf]g]b['Z'ca 'mci f']bXYdYbXYbhighi Xmž'Ug'k Y"
Ug'dfcj]X]b['h\Y'cdcfh' b]hm'hc'Yb[U[Y']b'dfcXi WVj Y'X]gW'gg]cb'k]h'h\Y]f'dYYfg'UbX'hc'dUfh]W]dUHY']b'U
fUb[Y'cZghf' Vh' fYX'YUfb]b['UWVj]hYgž']bW' X]b[' [fci d#dU]f#bX]j]Xi U'UbU'm]WV'k cf_žZ'ca U'UbX']bZ'ca U'
XYVUH'gž'ei]nnYg'UbX'a]b]!dfc'YVWg"Hi hc'f]U'g'U'fY'U'gc '%\ci f']b'Xi fU]cb"

' "'B89D9B89BH@95FB-B; '57H# #H-9G

hXYdYbXYbh'YUfb]b['UWVj]hYg'a i ghVY'Vca d'YHYX'YUWX'k YY_'UbX'g\ci 'X'fU_Y'Uddfc]]a UHY'm' \$!a]bg"
H\Ym'UfY'XYg][bYX'hc'Z'ghYf']bXYdYbXYbhighi Xm'UbX'hc'U'ck 'Z'cf'Yb[U[Ya Ybhk]h'X]ZY'fYbh'fUg_g'h.Uh
W]bbchVY'i bXYfU_Yb']b'U'h' hc'f]U'Ybj]fcb'a Ybž'gi V\ Ug'VcbXi W]b['cb']bY'fYgYUfW'cf'k UHW]b['U'Z'a "
H\YgY'UWVj]hYg'UfY'WYUf'mYI d'U]bYX'cb'h\Y'I b]j Yfg]m@A G'UbX'k]"a cgh'mVY'ZUW']hUHYX'Vm]h'

H\]g'V'YbXYX'a cXY'cZXY']j Yfm'Vch']bWfYUgYg'mci f'ZYI]V']]mž'Ug'mci 'W]b'Vca d'YHY'dfYdUfUhc'fmiUWVj]hYg
UhU'h]a Y'h.Uhgi]hg'mci ž'UbX'XYdYbg'Yb[U[Ya Ybž'Ug'mci 'k]"Uff]j Y']b'h\Y'WUggfcca 'k Y"!dfYdUfYX'UbX
UV'Y'hc'i bXYfU_Y'Vca d'YI ž'dfcV'Ya !VUgYXž'YUfb]b['UWVj]hYg']b'h\Y'ZUW'!hc!ZUW'WUggYg"

5ggYgga Ybh

: cf`U`"]bZcfa Uh]cb`fY[UfX]b[`I B GK `GC GG`dc`]WniffYZfYbW]b[ž`d`U[]Uf]ga ž`UH`bYgg`YH`gYY.

\hhdg.#gcvU`gWYbWg"Ufhg"i bgk "YXi "Ui #gh XYbhg#Ygci fWg#dc`]WYg![i]XY`]bYg#

DYbU`h]Yg`h.Uha UmVY`Udd`]YX`hc`mci f`k cf_.

- Mci`ghUbx`hc`

ZYXVUW_g\YYh#i Vf]Wk]`VY`Uj U]UV`Y`hc`ghi XYbHg`UhihY`ghUfhcZhY`Wci fgY`gc`h`UhihYm`Wb`k`cf`
hck UfXg`gdYW]ZYX`ghUbxUfXg"

Hi fb]hb`gYH]b[. H\]g`Ugg][ba Ybh]g`gi Va]hYX`h`fci [\`Hi fb]hb`UbX`ghi XYbHg`Wb`gYY`Hi fb]hb`ga]Uf]m
fYdcfHg"

5ggYgga Ybh' . `9I Ua

GHUfhXUH. `\$(#) #&\$&\$`\$- . \$\$`5A

8YHU]`g. `9I Ua]b`h`Y`cZ]WU`I BGK `YI Ua `dYf]cX" `H\]g`]g`h`Y`Z]bU`UggYgga Ybh]b`h`Y`Wci fgY""Gh XYbHg
k]`fYW]j`Y`U`bi`a`Yf]W`[`fUXY`k`]h]b`h`c`k`YY_g`cZgi Va]gg]cb`h`fci [\`h`Y`I`b]j`Yfg]mfj`@YUfb]b[
A UbU[Ya YbhGmgH`a `f@A GE"

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

H\]g`]g`U`h`U`_Y!\ca`Y`YI`Ua`UXa`]b]ghYfYX`h`fci [\`mci`f`A`ccX`Y`dcfH`z`Xi`f]b[`h`Y`Zcfa`U`I`BGK`YI`Ua
dYf]cX" `H\Y`YI`Ua`ei`Ygh]cbg`k`]`Uj`U]UV`Y`Uh`-`Ua`cb`:`f]XUmihY`%ghcZA`Unz`&&&\$" `H\Y`YI`Ua`k`]`VY
gi`Va`]hYX`h`fci [\`h`fb]hb`#`ccX`Y`Z`UbX`]g`Xi`Y`Vm`-`Ua`A`cbXUmihY`(`h`cZA`Um`&&&\$" `A`cfY`XYHU]`g`UfY
Uj`U]UV`Y`cb`A`ccX`Y

Hi fb]hb`gYH]b[. H\]g`Ugg][ba Ybh]g`gi Va]hYX`h`fci [\`Hi fb]hb`UbX`ghi XYbHg`Wb`gYY`Hi fb]hb`ga]Uf]m
fYdcfHg"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

gYY`A ccXY

F YWca a YbXYX`F Ygci fWg

GYY`A ccXY

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

GYY`A ccXY

5 WUXYa]W<c bYghmUbX`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`]VYfUHY`WXYU]b[`hc`UWV]XYbhU`mW`dm]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`hc`hY`cf][]bU`hYI hcf]XYU`k]h`ci hUW_bck`YX[]b[`hY`
gci fW`cf`i g]b[`ei chU]cb`a Uf_g" `H\]g`U`gc`Udd`]Yg`hc`]a U[YgžUfhUbX`XYg][b`dfc`YWgžUg`k Y`Ug
dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]g`UbchYf`g]XYUg`cf`k cfXg`k]h`ci hWYX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`U`b[]b[`U`ZYk`k cfXg`UbX`d`fUgYg`k`Y`a cghmifYU]b]b[`hY`cf][]bU`
ghfi W`fY`UbX`#`f`dfc[fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`ž`UbX`]bZcfa U]cb`k]h`ci hUW_bck`YX[Ya Ybh`H\]g`U`gc
Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`UbchYf`g]XYUg`cf`k cfXg`k]h`ci hWYX]hU`bX`hc
d]YW]b[`hc[YhYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k \c`Yž`k]h`ci hUddfcdf]UHY`fYZYfYbW]b["

7 c`i g]cb.`k cf_]b[`k]h`chYfg`Vi hdUgg]b[`cZ`hY`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`UbchYf`gh`XYbhVYZc`fY`hY`Xi Y`XUHYž`cf`Zc`f`hY`di fdcgY`cZ`hY`a

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F'Ygci f'W'g'Dc'W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dY'W'X'cZYj Yfmcby'j]b'h'Y'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj]W'g'UbX'j]bZ'fa U]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k]''VY'ZJa]]Uf'hc'mci ž'c'h'Y'fg'k]''VY'bYk "'; U]b]b['U'gc'X'i bXYfghUbx]b['cZU''h'Y fY'U'Y'X'UgdY'W'g'cZ9@-G9'k]''\Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\h'hd.##ji V'Y'W'i \]X'Y'g''j\]VfUfm'i bgk "Y'X'i "U'i #' \]gY#\]Vci h' \]gY](#)

5 WUXYa]WbZcfa Uh]cb`

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`rc.

- fYei Ygh]Zc`fYI h`bg]cb/
- `Uh]`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I BGK `<YU`h`UbX`GUZY`mdc`]WYg/

