



ARTS3212

7cbY a dcfUfm= bX]U'H\ fci [\ '6c`nk ccX. 'Dc`h]Wgž'GcWYhm
UbX'7i `hi fy

HYfa `H\ fYY`##`&\$&\$



GWcc`cZ< i a Ub]HYg'UbX'@Ub[i U[Yg`##' i BGK `5ftg'UbX'GcWU`GwYbWg

7ci fgY`Cj Yfj JYk

7ci fgY'8YHJ`g

7fYX]hDc]bHg`*`

Gi a a UfmcZ`hY'7ci fgY

h`hY`WcbhYa dcfUfmc cF`X`cFXYfz`hX]U`dfYgYbHg`U`dUfUXcl` .`U`f]g]b[`[`cVU`Y`Wcbca`]Wdck`Yf\ci`gY`ZUW]b[
gi`VghUbh]U`XYj`Y`cda`YbHU`UbX`Ybj`]fcb`a`YbHU`WU`Yb[`Yg`"5a`fW`_`ba`Sck` ;`V[S`d`fcj`]XYg`gh`XYbHg`k`]h`
dU`h`k`Um`g`h`c`i`bXY`fghU`bX]b[`[`hX]U`h`cXUmz`k`]h`fY`ZY`fY`bVW`h`c`]hg`d`c`gh`Wc`cb]U`h`g`h`c`fmz`gc`WY`mi`UbX`W`fY`bh`
dc`]h`Wg`"H\Y`Wc`i`fgY`i`gYg`d`cdi`Uf`<`]bX]W]bYa`U`c`f`6`c`mk`ccX`Ug`Ub`Yb`h`f`m`d`c]b`h`c`h`fU`W`h`Y`Y`[`UW]Yg`c`Z`
Wc`cb]U`]ga`z`XYa`c`WU`W`mi`UbX`g`Y`W`U`f]ga`]b`hX]U`z`U`cb[`g]XY`Ub`U`mg`Yg`c`Z`W]g`h`z`[`Yb`XY`f`UbX`fY`[`]cb`"H\Y`
Wc`i`fgY`Wc`bg]XY`f`h`Y`XYj`Y`cda`YbHU`Y`Wc`bca`mz`Ug`k`Y`U`g`]ggi`Yg`c`Z`Wc`f`fi`d`h`c`b`z`b`Y`c`]VY`fU`]ga`UbX`h`Y`f`c`Y`
c`Z`h`Y`h`X]U`b`X]U`g`d`c`fU`"6`mi`h`Y`Y`b`X`c`Z`h`Y`Wc`i`fgY`z`m`c`i`k`]VY`U`V`Y`h`c`Z`Y`f`g`c`i`b`X`U`X`j`]W`h`c`U`b`m`c`b`Y`k`h`c`
Ug`_`g`m`c`i`k`h`Y`f`Y`g`]g`h`X]U`[`c]b[`3`k`h`U`h`U`f`Y`h`Y`c`d`d`c`f`h`b`]h`Y`g`U`b`X`f]g`_`g`c`Z`Y`f`Y`X`V`m`Y`b[`U`[`]b[`k`]h`
Wc`b`h`Y`a`d`c`f`U`f`m`h`X]U`3

7ci fgY`@YUfb]b[`C`i`hWc`a`Yg

%`5`b`U`m`g`Y`UbX`Y`j`U`i`U`h`Y`f`Y`Y`j`Ub`h`g`W`k`c`U`f`m`i`]h`Y`f`U`h`i`f`Y`
&`9`I`d`U`]b`_`Y`m`U`g`d`Y`W`g`c`Z`h`X]U`b`g`c`W]Y`m`z`W`h`i`f`Y`Ub`X`d`c`]h`W`g`]g]b`VW`%`(`+`
'`" `7`c`b`g`f`i`W`h`Y`j`]X`Y`b`W`!`V`U`g`Y`X`U`f`[`i`a`Y`b`h`g`i`g]b[`]b`X`Y`d`Y`b`X`Y`b`h`m`c`W`U`h`X`g`c`i`f`W`g`
(`" `D`Y`f`z`c`f`a`U`g`g]b`Y`X`h`U`g`_`g`k`]h`]b`U`[`f`c`i`d`g`Y`h`]b[`Ub`X`h`U`_`Y`d`U`f`h`i`b`[`f`c`i`d`X`]g`W`g`g]c`b`
)`" `X`Y`b`h`z`m`h`Y`k`U`m`g`]b`k`h`]W`d`c`d`i`U`f`W`h`i`f`Y`z`g`i`W`U`g`z`]a`z`f`Y`Z`Y`W`g`h`Y`d`c`]h`W]z`g`c`W]U`Ub`X`W`h`i`f`U`
]b`z`i`Y`b`W`g`]b`k`h`]W`h`]g`d`f`c`X`i`W`X`Ub`X`Wc`b`g`i`a`Y`X`"

HYUWk]b[`G`h`f`U`h`[`]Y`g`

H\Y`Wc`i`fgY`]g`XY`g][`b`Y`X`h`c`]b`h`c`X`i`W`g`h`XY`b`h`g`h`c`Wc`b`h`Y`a`d`c`f`U`f`m`h`X]U`b`d`c`]h`W`g`z`g`c`W]Y`m`z`Ub`X`W`h`i`f`Y`]b`Ub`
U`W`h`j`Y`Y`U`f`b]b[`Y`b`j`]f`c`b`a`Y`b`h`H\Y`Wc`i`fgY`h`U`_`Y`g`i`V`g`h`U`b`h`j`Y`]ggi`Y`g`U`X`X`f`Y`g`g`Y`X`]b`Wc`b`h`Y`a`d`c`f`U`f`m`6`c`mk`cc`X`
z`]a`U`g`U`d`f`c`a`d`h`c`]b`h`f`f`c`[`U`h`Y`h`Y`Wc`i`fgY`h`Y`a`Y`g`"G`h`c`f`h`W]d`g`k`]VY`g`h`c`k`b`Ub`X`X`]g`W`g`g`Y`X`]b`W`U`g`g`U`g`U`
k`U`m`c`Z`d`f`c`a`d`h`b[`h`]b`_`]b[`U`V`c`i`h`h`c`d]W`g`"K`Y`Y`_`m`Y`W`h`i`f`Y`g`d`f`c`j`]X`Y`h`Y`V`U`W`_`[`f`c`i`b`X`]b`z`c`f`a`U`h`c`b`h`c`]b`h`c`X`i`W`
g`h`XY`b`h`g`h`c`W`]h`W`h`Y`a`Y`g`h`U`h`g`h`f`i`W`h`i`f`Y`Wc`U`V`c`f`U`h`j`Y`Y`U`f`b]b[`"6`f`Y`U`_`c`i`h`[`f`c`i`d`g`z`c`W`g`c`b`g`d`Y`W`z`W`
f`Y`U`X]b[`g`z`Wc`b`b`Y`W`h`b[`Y`j`Y`b`h`g`U`Z`Y`W`h`b[`Wc`b`h`Y`a`d`c`f`U`f`m`h`X]U`V`m`Y`b[`U`[`]b[`k`]h`b`Y`k`g`Y`j`Y`b`h`g`z`W`h`i`f`U`
Y`i`d`f`Y`g`g]c`b`g`Ub`X`Ub`U`m`g]g`]b`h`Y`V`c`[`c`g`d`h`Y`f`Y`"K`Y`k`]a`U`_`Y`i`g`Y`c`Z`g`[`g`U`k`[`f`c`i`d`g`h`c`X`j`]X`Y`f`Y`U`X]b[`g`Ub`X`
X`]g`W`g`g`h`Y`a`]b`]g`a`U`[`f`c`i`d`g`"G`h`XY`b`h`g`U`f`Y`Y`b`Wc`i`f`U`[`Y`X`h`c`h`U`]c`f`h`Y`f`k`f`]h`b[`U`g`g`Y`g`g`a`Y`b`h`g`h`c`U`][`b`k`]h`
h`Y`f`d`U`f`h`W`U`f`]b`h`Y`f`Y`g`h`z`Ub`X`h`c`k`f`]h`Y`Ub`Y`i`h`Y`b`X`Y`X`Y`g`g`U`m`c`b`U`h`c`d]W`c`Z`h`Y`f`c`k`b`X`Y`g][`b`"

Hi fb]hb'gYHb[. H\]g'Ugg][ba Ybh]g'gi Va]hYX'hfci [\ 'Hi fb]hb'UbX'ghi XYbhg'WUb'gYY'Hi fb]hb'g)a]Uf]hm fYdcftg"

5ggYgga Ybh&. '9ggUmUVghfUWb'UbX'UbbchUH'X'V]V'jc[fUd\m

GHUfhXUH. 'Bch5dd'WUVY

@Yb[h. '%&\$\$!%) \$\$'k cfXg

8YHU]`g.

Gh XYbhg'jXYbh]Zm'hY]f'a U'cf'ZcW'g'Zc'f'hY'YggUmVmK YY_ 'Zci f'ZVmK f]hb['Ub'UVghfUW'ici h]b]b['hY]f]bh'X'YX'Uf[i a Ybh'Z'VUgYX'cb'hY']h'fU'h fY'W'cbgi 'hX'"H\Y'UbbchUH'X'V]V'jc[fUd\mK]'XYHU]'h]g]h'fU'h fY'Z'UggYgg]b['Zj Y'g'W'c'Uf'mgci fW'g'hY'm\Uj Y'jXYbh]Z'YX"'%&\$\$!%) \$\$'k cfXg": YYXVUW_k]'VY'cZY'fYX'j]U'j]bX]j]Xi U'W'ca a Ybh'Z'U'fi Vf]W'UbX'j]b!WUgg'X]gW'gg]cb"

Gi Va]gg]cb'bh'g.GYY'j]bghfi W'cbg'cb'A ccX'Y"

Hi fb]hb'gYHb[. H\]g'Ugg][ba Ybh]g'gi Va]hYX'hfci [\ 'Hi fb]hb'UbX'ghi XYbhg'WUb'gYY'Hi fb]hb'g)a]Uf]hm fYdcftg"

5ggYgga Ybh' . F YgYUfW'9ggUm

GHUfhXUH. 'Bch5dd'WUVY

@Yb[h. ') \$\$

8YHU]`g.

H\Y'fYgYUfW'YggUmK]'YI h'YbX'cb'hY'Z'fghUgg][ba Ybh'Z'VUgYX'cb'Z'YXVUW'UbX'hY]f'j]bXYdYbXYbh fYgYUfW'cZ'hY'gYW'cbXUfm'j]h'fU'h fY'"K]h'U'ja]h'cZ' ž) \$\$'k cfXg'Z'hY'YggUm'cZY'fg'hY'cdd'cfh b]h'm'ic YI d'cfY'U'h'cd]W'cZ'hY'ghi XYbhg'W'ccg]b['j]b'gca Y'XYHU]": YYXVUW_k]'VY'cZY'fYX'j]U'j]bX]j]Xi U'W'ca a Ybh'Z'UbX'U'fi Vf]W'H\]g'g'hY'Z]bU'UggYgga Ybh'Z'f'U'h'Y'bXU'W'W'di fdcgYg"

Hi fb]hb'gYHb[. H\]g'Ugg][ba Ybh]g'gi Va]hYX'hfci [\ 'Hi fb]hb'UbX'ghi XYbhg'WUb'gYY'Hi fb]hb'g)a]Uf]hm fYdcftg"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F YUX]b[g`UfY`gYhYUW`k YY_`cb`A ccX`Y#@Y[UbhcžUg`k Y`cb`]bY`a UHf]U`g"

F YWca a YbXYX`F Ygci fWg

H\YfY`k]`VY`UXX]h]cbU`fYgci fWg`cb`A ccX`Y#@Y[Ubhc"

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

@UghmYUf`gh XYbhg`dfcj]XYX`YI hYbg]j Y`ZYXVUW`cb`h\Y]f`Zj cf]h`hd]Wg`UbX`fYUX]b[g`H\YgY`\Uj Y`VYYb
ZJWtcfYX`]bhc`h\]g`mYUffg`Wci fgY"

Gi Va]gg]cb 'cZ5ggYgga YbhiHUg_g

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

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

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`_`Y`a` `U`b`m`
Z`c`f`a` g`z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'j]bZcfa Uh]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci ž'ch'Yfg'k]`VY'byk " "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`h'Y fY'UH'X'UgdYW'g'cZ9@-G9'k]`Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hhd.##ji V'YWf'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

5 WUXYa]W**⊖**Zcfa Uh]cb

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