



**ARTS3290**

J ]g]&

Y[ Yg'cZ i i fY

GWcc``cZ< i a Ub]hYg'UbX'@Ub[ i U[ Yg'`# ' I BGK '5ftgZ8 Yg][ b/ '5fWx ]hYVh' fY

7ci fgY`Cj Yfj ]Yk

GHJZZ7cbHJW`8YHU]`g

7cbj Ybcfg

B Ua Y	9a U]	5j U]UV]]m	@cWU]cb	D\cbY
GU]\U`6Y`a Yggci g	g"VY`a Yggci g4 i bgk "YXi "Ui	K \]Y`k Y`UFY k cf_]b[ `fYa chY`mž d`YUgY`Ya U]`a Y`rc UffUb[ Y`U d\cbY# ]XYc W`bgi `U]cb	A 6' '\$'	-', ) &' * &

GWXcc``7cbHJW`bZcfa U]cb

GWXcc``cZ<i a Ub]hYg`UbX`@Ub[ i U[ Yg

@cWU]cb. GWXcc``C Z]WžA cfj Yb`6fck b`6i ]X]b[ ž@Yj Y`ž&),

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

D\cbY. ž\*%&`-' , ) `%, %

: U! . ž\*%&`-' , ) ; +\$)

9a U]: [\U`4 i bgk "YXi "Ui](#)

7ci fgY'8YHJ>`g

7fYX]hDc]bhr`\*`

Gi a a UfmicZ\hY'7ci fgY

H\Y'ghi XmicZYa d]fY`jg`W]h]WU`]b`i bXYfgHUbX]b[ `hY`dcghWc`cb]U`dfYgYbhz`hY`fY!Ya Yf[ YbW`cZYa d]fYz`  
dYfg]gh]b[ `dfcV`Ya g`cZ`bX][ Ybci g`f][ \hg`UbX`hc`Wc`bYa dcfUfmi bXYfgHUbX]b[ g`cZ`i a Ub`f][ \hg`a cfY`  
[ YbYfU`m`H\jg`Wc`i fgY`k`j`dfcj`jY`U`W]h]WU`YI Ua`]bU]cb`cZ9i fcdYUb`Wc`cb]U`jYc`c[ ]Yg`UbX`dfUW]W`g`" `#`  
k`j`U`gc`ZcW`g`cb`hY`ja dYf]U`YI dYf]YbW`g`cZ`Wc`cb]nYX`dYcd`YgZ`cc\_]b[ `Uhk`Umg`]b`k` \]W`h`YmYb[ U[ YX`  
k`]h`Ya d]fY`UW`cgg`d`UW`g`UbX`h`a`Y"

9a d]fYg`]b`K`cfX`<]ghcfm]k`j`cZYf`mci`hY`cddcfh`b]m]hc`i`bXYfgHUbX`k` \Uh]a dYf]U`]ga`k`Ug`UVci`h` \ck`]h`  
W`Ub[ YX`hY`ZUW`cZ`hY`k`cfX`UbX`]hg`]a dUW`icb`hY`dfYgYbH`H\Y`Wc`i`fgY`k`j`ZJa`]Uf]nY`mci`k`]h`\_Ym`  
Wc`bW`dhrz`hY`hg`UbX`a`Y`hc`Xc`c[ ]Yg`Zc`f`hY`ghi XmicZ`Wc`a`dUfU]j`Y`]a dYf]U`]ga`Ug`k`Y`Ug`YUf`m`a`cXYfb`UbX`  
a`cXYfb` \]ghcfm`H\cgY`k` \c`gi`W`ggZ`m`Wc`a`d`Y`H`h`jg`Wc`i`fgY`k`j`ghfYb[ hYb`hY]f`UbU`m]WU`UbX`  
fYgYUfW`g`\_`g`Ug`k`Y`Ug`hY]f` \]ghcf]WU`\_bck`YX[ Y"

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

%`5bU`mgY`\_YmY] Ybhrz]XYUgZ`dYcd`Y`UbX`fYbXg`]b`]a dYf]U` \]ghcfm`  
&`F`YUX`cb[ !hYfa`dUfYfbg`]b`Wc`cb]U`]ga`UbX`]a dYf]U` \]ghcfm]UbX`i`bXYfgHUbX`hY]f`g][ b]ZUWbW`  
'`" `9b[ U[ Y`k`]h`W]h]WU`XYVUH`g`cb`]a dYf]U`]ga`UbX`]hg`Y[ UW]Yg`  
(`" `5bU`mgY`UbX`]bH`fd`fY`h`XcW`a`Ybhr`  
)`" `7cbXi`Wh]bXYdYbXYbhgW`c`Uf`mYbei`]fm`

HYUW`]b[ `GhfUH`[ ]Yg`

H\Y`Wc`i`fgY`]g`XYg][ bYX`hc`YbWc`i`fU[ Y`mci`hc`Yb[ U[ Y`W]h]WU`mik`]h`dUghUbX`W`fYbHXYVUH`g`UVci`h`  
9i fcdYUb`]a dYf]U`]ga`UbX`]hg`]a dUW`icb`Wc`cb]gYX`UbX`Wc`cb]g]b[ `gcW]Yh]Yg`" `#k`j`U`gc`]bfcXi`W`mci`hc`  
fYW`bh`fYgYUfW`cb` \i`a`Ub`f][ \hg`UbX`hY`f][ \hg`cZ`bX][ Ybci`g`dYcd`Yg`" `9UW`k`YY`\_`U`gdYW]Z]W]ggi`Y`k`j`VY`  
hY`ZcW`g`cZ`hY`fYUX]b[ gZ`hY`Y`W`h`fY`UbX`hY`gYa`]bUf`X]gW`gg]cb"

H\Y`fYUX]b[ gZ`U`VUgYX`cb`gW`c`Uf`m]hYfU]h`fYz`dfcj`jY`Wc`bH`i`h`U`]bZc`fa`U]cb`" `H\Y`cbY`!`ci`f`Y`W`h`fY`  
dfYgYbhr`9i fcdYUb`j`]g]cbg`cZYa`d]fY`VmYI`d`cf]b[ `hY`\_Ym]XYUgZ]XYc`c[ ]Yg`UbX`gm]hYa`g`h`Uhgi`ddcfhYX`  
Ya`d]fY!Vi`]X]b[ `UbX`a`UbU[ Ya`YbH`b`hY`&bX`UbX`" `fX` \ci`fgZ`k`Y`k`j`ZcW`g`cb`hY`j`c]W`g`cZYa`d]fY`Vm`  
gh`Xm]b[ `XcW`a`Ybhr`dfcXi`W`X`Vm`h`cgY`k` \c`j`YX`]b`h`cgY`Ya`d]fYg`fWc`cb]gYX`dYcd`YgZ`cZ]WU`gZ`gYhYfg`  
K`Y`U]a`hc`i`bXYfgHUbX` \ck`]a dYf]U`gi`V`Y`W`h`YI`dYf]YbW`X`Ya`d]fYz`]b`chYf`k`cfXgZ` \ck`hYmYb[ U[ Y`k`]h`

# 5ggYgga Ybh

5`UggYgga Ybfg UfY Wca di `gcfm'


E i Ygh]cbg`hc`7 cbg]XYf`Zcf`h\Y: ]Y`Xk cf\_`Dfc`YWh

%`DfYgYbh`h\Y`a cbi a Ybh`k \Uh]g`]h3`K \Yb`k Ug`]hVi ]h3`K \YfY`]g`]hg]h UhYX`3

&`DfYgYbh`h\Y`\]ghcf]WJ`WcbhYI

Mci`Wb`i`gY`hY`a`Uhf]U`dfcj`jYX`]b`hY`Wci`fgY`fiYWi`fYg`UbX`hi`hf]U`X]gW`gg]cbgE"

:`YYXVUW`\_j`jU`]bX]j`]Xi`U`Wca`a`Ybfg"

Hi`fb]h]b`gYh]b[.`H\]g`Ugg][`ba`Ybh]g`gi`Va`]hYX`h`fci`[\`Hi`fb]h]b`UbX`ghi`XYbfg`Wb`gYY`Hi`fb]h]b`g]a`]Uf]m`fYdcfg"

5ggYgga`Ybh`.`7`Ugg`hYgh

GhUfhXUhf.`Bch5dd`]WVY

@Yb[`h.`%\$\$`a`]bi`hYg

8YhU]`g.

⊖!WUgg`hYgh`cb[`Ubkg`Yf`ei`Ygh]cbg"Ghi`XYbfg`fYW]j`Y`U`bi`a`Yf]W`a`Uf`\_`UbX`Wcbgi`hi`hY`YWi`fYf`Zcf`Z`fhYf`ZYXVUW`"

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

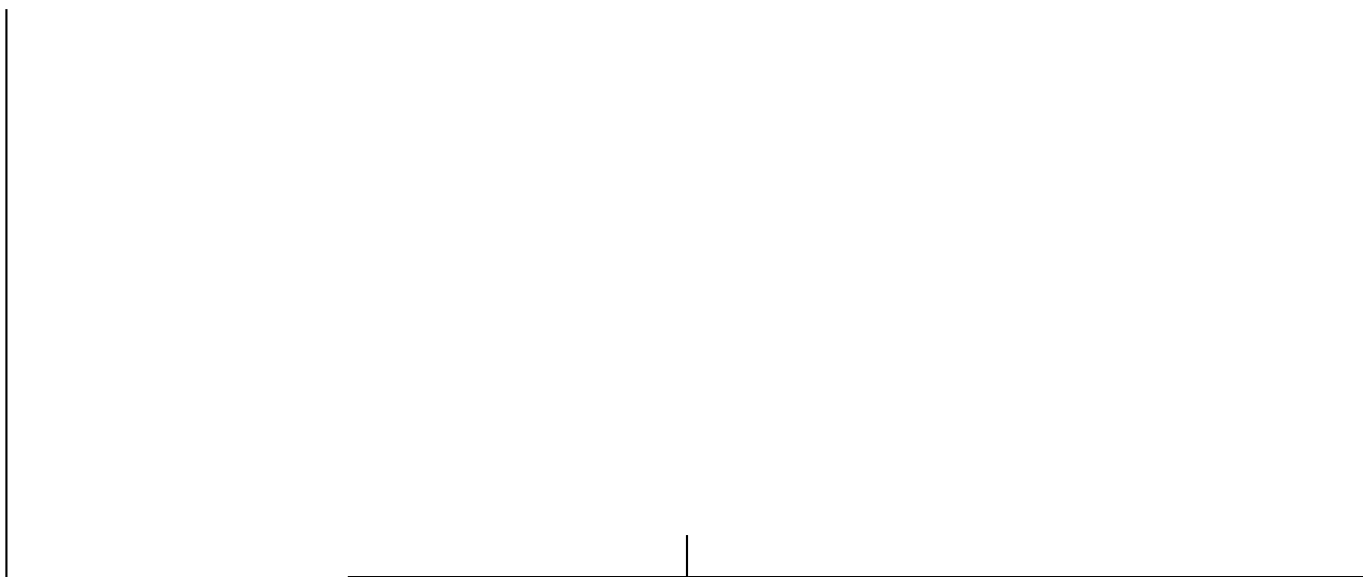
H\Y`]b!WUgg`hYgh]g`fYd`UW`X`k`]h`Ub`cb`]bY`hYgh`h`U`hk`]`VY`\Y`X`Xi`f]b[`hY`Ugh`h`hf]U`UbX`k`\]W`mci`k`]`gi`Va`]h`h`fci`[\`Hi`fb]h]b"

@Yb[`h.`%\$\$`a`]bi`hYg"

Hi`fb]h]b`gYh]b[.`H\]g`Ugg][`ba`Ybh]g`gi`Va`]hYX`h`fci`[\`Hi`fb]h]b`UbX`ghi`XYbfg`Xc`bchgYY`Hi`fb]h]b`g]a`]Uf]m`fYdcfg"

5 hYbXUbW`F Yei ]fYa Ybhg

5 hYbXUbW`cZHi hcf]U'g`



F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

K YY\_ma UbXUhcfmfYUX]b[ g`UfY`Uj U]UV`Y`cb`A ccX`Y"

F YWca a YbXYX`F Ygci fWg

Mci`g\ci`X`Vi mi<YUHfYf`GfYYfG!GU`Hf`UbX`HfYj`cf`F`"; Ymž7\_ b[dWé S`V 5a`à` [Mè [ fZW? aVWd`I` adV,  
3 9`àTS^B WèbWUf[hWfBYk`Mcf\_`C`I`ZcfX`I` b]j`Yfg]mDfYggž&\$\$%`L`H\]g`Vcc\_`]g`Uj U]UV`Y`UhH`Y`I` BGK  
6cc\_g`hcfY`"H\YfY`UfY`U`gc`U`Wèi`d`Y`cZ`Wèd]Yg`]b`h`Y`<I` 7`UhH`Y`"VfUfm`I` bZcfh`bUH`m`h`Y`fY`]g`bc`Y!  
WèdmiUj U]UV`Y`"

=U`gc`fYWca a YbX`>UbY`6i`fVUb\_`UbX`:`fYXYf]W\_`7`ccdYfž7\_ b[dWé [ I` adV` : [efack, Bai`Wd`S`V`fZWBa`f[Ue  
aX6`[XWdW`UWfDf]bW`hcb.`Df]bW`hcb`I` b]j`Yfg]mDfYggž&\$\$%`L`/UbX`?`f]g\Ub`?`i`a`Ufž7\_ b[dWé, 3` : [efad[US^  
S`V`Ba`f[US^E`aU[a`àYk`f7`Ua`Vf]X[`Y.`Dc`]mDfYggž&\$\$%`L`"

5XX]h]cbU`fYUX]b[ g`cb`k`YY\_`m`h`cd]Wg`WUb`VY`Zci`bX`cb`h`Y`A`ccX`Y`Wèi`fgY`dU[`Y"

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

Gh`XYbhZYXVUW\_k`]`VY`[`UH`YfYX`j`]U`A`m9I`dYf]YbW`UH`h`Y`YbX`cZ`h`Y`Wèi`fgY`UbX`h`fci`[\`U`Vf]YZ]b!WUgg  
Yj`U`i`Uh]cb`Xi`f]b[`h`Y`f]a`Ygh`f`"

Gi Va ]gg]cb`cZ5ggYgga YbhiHUg\_g

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

≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UHYa` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiHfci`[`\`Hi`fb]h]b`z`d`YUgY`  
HY`Yd\cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``"``%cf`Ya`Uj`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`f1`\*)`XUmg`U`mY`Uf2`≠mci`  
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiXi`Y`hc`U`ZU`ihk`]h`Hi`fb]h]b`mci`a`UmUdd`mZc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`  
a`i`ghfYhU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Ybhtg`L`hc`  
]bWi`XY`Ug`Yj`]XYbVW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`≠mci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`j`  
Ui`hca`UH]WU`mifYW]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd\cbY`mci`k`j`b`YYX`hc`gd`YW]Z]WU`mUg`Zc`f`cbY`  
Hi`fb]h]b`U`gc`dfcj`]XYg`i`dXUH`g`cb`h`Y]f`gmgh`Ya`ghU`h`g`cb`Hk`]hYf`"

;`YbYfU`mz`UggYgga`YbhiUg\_g`a`i`ghVY`gi`Va`]hYX`Y`YWfcb]WU`mj`]U`Y]h`Yf`Hi`fb]h]b`cf`U`A`ccX`Y`  
Ugg][`ba`Ybhi`h]b]bg]h]b]Wg`k`\YfY`h`g`]g`bchdcgg]V`Yz`]hk`j`VY`ghUHYX`cb`mci`f`Wci`fgY`g`A`ccX`Y`g]h`k`]h`  
U`HYfbU]h]`Y`gi`Va`]gg]cb`XYhU]g`"

:`cf]bZcfa`Uh]cb`cb`\ck`hc`gi`Va`]hUgg][`ba`Ybhtg`cb]bY`j`]U`A`ccX`Y`.\`hhdg`#gh`XYbhi`bgk`"YXi`"Ui`Ack`!  
gi`Va`]hUgg][`ba`Ybhta`ccX`Y`"

## 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`i`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`V`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`i`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`i`[`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']hYg'Ug'U'gh XYbhUhl BGK
-

5 WUXYa ]W=Zcfa Uh]cb

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