



COMD0506

GdYWjU`Dfc[fUa

HYfa `Hk c`##`&\$%-

7 ci fgY`Cj Yfj]Yk

`GHUZZ7 cbhUWhi8YHJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj`]m	@cWjhcb	D\cbY
? f]g\bU`G\fyghU	_f]g\bU"g\fyghU4 i bgk "YXi "Ui	6mYa Uj` Uddc]bha Ybh	A cf[Yb 6fck bž; %+	- ' ,) %(%

GW\cc``7cbhUWhi`bZcfa Uh]cb

GW\cc``cZGcWjU`GWYbWg

Fcca`%) -

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

Ya Uj`.gcgg4 i bgk "YXi "Ui

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

7 ci fgY'8YHJ]`g

7 fYX]hDc]bhr '*`

Gi a a UfmcZ\hY'7 ci fgY

H\Y'GdYWU'Dfc[fUa 'U`ck g'gh XYbhrz]b`X]gW gg]cb`k]h`h\Y'7 ci fgY'7 cbj Ybcfz`hc`ghf W`h fY'U'dfc[fUa k \]M\`])b_g`h\Y'gh XmcZUb`UgdYWhcZXYj Y`cda Ybhk]h`h\Y'dfUW]W`cZXYj Y`cda Ybh`H\Y'GdYWU'Dfc[fUa `a UmhU_Y`U`j Uf]YhmcZ`Zcfa g`-]bW` X]b[`d`UW`a Ybhk]h`h`Ub`U[YbW`hcf`cf[Ub]nU]cb`k cf_]b[`]b`h\Y ZY`X`cZXYj Y`cda Ybhz`U`ghf W`h fYX`fYgYUfW`d`fc`YWz`UbX`#`f`dfYdUfU]cb`cZU`di V`]g\UV`Y`Uf]WY`dfYdUfYX Zc`f`gi Va]gg]cb`hc`U`dYYf]fYj]Yk`Uf]WY`UbX`Z`W`gYX`cb`Ub`UgdYWhcZXYj Y`cda Ybh`

H\Y'GdYWU'Dfc[fUa `k]`gYY`_`hc`dfca`ch`W`h]W`fYZYW]cbz`W`bW`dh`U`XYj Y`cda Ybhz`UbU`mg]g`UbX k f]h]b[`Vi`hW`b`VY`ghf W`h fYX`]b`U`j Uf]YhmcZ]ZYfYbhk Umgz`Uhh]a Yg`i`bXYf`h\Y`c]bh[i]XUbW`cZUb`U[YbW`h VUgYX`cf`k`cf`d`UW`W`!`gi`dYfj]gcfz`U`cb[`k]h`U`I`BGK`UWUXYa]Wgi`dYfj]gcf`H\Y`gh`XYbh]g[cU`]g`hc`a`U`_`Y`U`i`gYZ`_`W`bhf]Vi`h]cb`hc`h\Y`XYj Y`cda Ybh[cU`gz`dc`]WYg`cf`dfc[fUa`g`cZ`h`Y`cf[Ub]gU]cbz`UbX`hc`]b`_`h`]g`YI`dYfj]YbW`hc`h\Y`VcXmcZUWUXYa]W`_bck`YX[Y`cb`XYj Y`cda Ybh`

9UW`d`fc`YW`h]g`]bX]j]Xi`U`mXYg][bYXz`UbX`h\Y`dfYW]gY`Zcfa`Uhk`]`j`Ufm`gca`Y`k`]`VY`fY`Uhj`Y`mXYhUWXYX`fYgYUfW`YI`YfW]gYg`k`\]Y`ch\Yfg`a`Um]bj`c`j`Y`YI`d`cf]b[z]a`d`Ya`Ybh]b[`UbX`UbU`mm]b[`W`Ub[Y`"9UW`k`]`VY`VUgYX`Ufci`bX`Ub`U[fYX`gYhcZcV`YW]j`Yg`UbX`UW]j`]hYg`U`cb[`k]h`h`k`c`hc`h`fY`gdYW]ZYX`Ugg][ba`Ybhg`k`\]M`k`]`VY`gi`Va`]hYX`UhdFY`XYhfa`]bYX`h]a`Yg`Zc`UggYgga`Ybh`

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

BchUj U]UV`Y

HYUW`]b[`GhfUH[]Yg`

D`YUgY`fYZf`hc`h\Y`]bZcfa`U]cb`]b`A`ccX`Y

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F Ygci fWg`UfY`XYHfa]bYX`VmH`Y`]bX]j]Xi U`gi dYfj]gcf`UbX`h`Y`gh`XYbH`XYdYbX]b[`cb`h`Y`bUhi`fY`cZ`h`Y`dfc`Y`W`i`

F YWca a YbXYX`F Ygci fWg

BchUj U]UV`Y

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

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`" #WUbb`hU`Y`a`Ubm`Z`fa`g`z`Z`ca`XY`]VYfUH`W`X`Y`U`h]b[`h`U`W`X`Y`b`U`m`W`d`m]b[`Z`ca`U`g`ci`f`W`k`]h`ci`h`U`W`_`b`c`k`Y`X`[`Y`a`Y`b`h`

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

7`c`d`m]b[`.`i`g]b[`h`Y`g`U`a`Y`c`f`j`Y`f`m`g]a`]U`f`k`c`f`X`g`h`c`h`Y`c`f][`]b`U`h`i`h`c`f`]X`Y`U`k`]h`ci`h`U`W`_`b`c`k`Y`X`[]b[`h`Y`g`ci`f`W`c`f`i`g]b[`e`i`c`h`U`h`c`b`a`U`f`_`g`"H`[g`U`g`c`U`d`d`Y`g`h`c`]a`U`[`Y`g`z`U`f`h`U`b`X`X`Y`g][`b`d`f`c`Y`W`g`z`U`g`k`Y`"U`g`d`f`Y`g`Y`b`h`c`b`g`k`Y`f`Y`g`c`a`Y`c`b`Y`d`f`Y`g`Y`b`h`g`U`b`c`h`Y`f`g`]X`Y`U`g`c`f`k`c`f`X`g`k`]h`ci`h`W`Y`X`]h`

#U`d`d`f`c`d`f]U`h`Y`d`U`f`U`d`f`U`g]b[`.`7`U`b[]b[`U`Z`k`k`c`f`X`g`U`b`X`d`f`U`g`Y`g`k`Y`a`c`g`h`m`i`f`Y`h]b]b[`h`Y`c`f][]b`U`g`f`i`W`i`f`Y`U`b`X`#`f`d`f`c`[`f`Y`g`g]c`b`c`Z]X`Y`U`g`c`Z`h`Y`c`f][]b`U`z`U`b`X`]b`Z`c`f`a`U`h]c`b`k`]h`ci`h`U`W`_`b`c`k`Y`X`[`Y`a`Y`b`h`"H`[g`U`g`c`U`d`d`Y`g`]b`d`f`Y`g`Y`b`h`U`h]c`b`g`k`Y`f`Y`g`c`a`Y`c`b`Y`d`U`f`U`d`f`U`g`Y`g`U`b`c`h`Y`f`g`]X`Y`U`g`c`f`k`c`f`X`g`k`]h`ci`h`W`Y`X`]h`U`b`X`h`c`d`]Y`W]b[`h`c`[`Y`h`Y`f`e`i`c`h`Y`g`U`b`X`d`U`f`U`d`f`U`g`Y`g`]b`h`c`U`b`Y`k`k`Y`c`Y`z`k`]h`ci`h`U`d`d`f`c`d`f]U`h`Y`f`Y`Z`f`Y`b`W]b["

7`c`i`g]c`b`k`c`f`_`b[`k`]h`c`h`Y`f`g`V`i`h`d`U`g]b[`c`Z`h`Y`k`c`f`_`U`g`U`d`Y`f`g`c`b`g`]b`X]j`]X`i`U`k`c`f`_`"7`c`i`g]c`b`U`g`c`]b`W`i`X`Y`g`d`f`c`j`]X]b[`m`c`i`f`k`c`f`_`h`c`U`b`c`h`Y`f`g`h`i`X`Y`b`h`V`Y`Z`c`f`Y`h`Y`X`i`Y`X`U`h`z`c`f`Z`c`f`h`Y`d`i`f`d`c`g`Y`c`Z`h`Y`a`d`U`[]U`f]g]b[`U`h`U`b`m`h`j`a`Y`z`d`U`m]b[`U`b`c`h`Y`f`d`Y`f`g`c`b`h`c`d`Y`f`Z`c`f`a`U`b`U`W`X`Y`a`]W`h`U`g`_`z`g`h`U`]b[`c`f`U`W`e`i`]f]b[`U`b`c`h`Y`f`d`Y`f`g`c`b`g`U`W`X`Y`a`]W`k`c`f`_`U`b`X`W`e`d`m]b[`]h`z`c`Z`Y]b[`h`c`W`e`a`d`Y`h`U`b`c`h`Y`f`d`Y`f`g`c`b`g`k`c`f`_`c`f`g`Y`Y`_]b[`d`U`m`a`Y`b`h`Z`c`f`W`e`a`d`Y`h]b[`U`W`X`Y`a`]W`k`c`f`_`"

#U`d`d`f`c`d`f]U`h`Y`W`h`U`h]c`b`7`]h]b[`g`c`i`f`W`g`k`k`]W`X`U`j`Y`b`c`h`V`Y`Y`b`f`Y`U`X`z`k`]h`ci`h`U`W`_`b`c`k`Y`X`[]b[`h`Y`"g`Y`W`e`b`X`U`f`m`g`c`i`f`W`Z`c`a`k`k`]W`X`_`b`c`k`Y`X`[`Y`c`Z`h`Y`a`U`g`V`Y`Y`b`c`V`h]b]Y`X`"

8`i`d`]W`U`h]c`b`f`f`g`Y`Z`d`U`[]U`f]g`a`"L`g`i`V`a`]h]b[`m`c`i`f`k`b`k`c`f`_`z`]b`k`Y`c`f`]b`d`U`f`z`k`Y`f`Y`]h`U`g`d`f`Y`j`]c`i`g`i`m`V`Y`Y`b`d`f`Y`d`U`f`Y`X`c`f`g`i`V`a`]h`Y`X`Z`c`f`U`b`c`h`Y`f`U`g`g`Y`g`g`a`Y`b`h`c`f`W`e`i`f`g`Y`U`h`I`B`G`K`c`f`U`b`c`h`Y`f`i`b`j`Y`f`g]m`"

7`c`f`f`Y`W`i`f`Y`Z`f`Y`b`W]b[`d`f`U`W]W`g`.

- D`U`f`U`d`f`U`g]b[`z`g`i`a`a`U`f]g]b[`z`Y`g`g`U`m`k`f]h]b[`U`b`X`h`j`a`Y`a`U`b`U`[`Y`a`Y`b`h`
- 5`d`d`f`c`d`f]U`h`Y`d`Y`c`]U`b`X`f`h]f`V`i`h]c`b`Z`c`f`U`b`h`c`g`Z`a`U`g`Y`U`d`Y`g]b]W`i`X]b[`f`h`i`h`z`U`f`c`U`g`y`z`k`Z`c`f`a`b`]U`Y`"U`Z`X`_"`W`e`b`W`d`r`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][\hžI 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]W'g'UbX']bZcfa Uhcb'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 ""

[\hd. #gj V'YWf i \]XYg" \]VfUfm'i bgk "YXi "Ui #` \]gY#UVci h' \]gY](#)

5 WUXYa]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`hc.

- fYei Yghg`ZcfYI hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I B GK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
- gdYWU`Vc]bg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
- ghi XYbhYei]mUbX`X]gUV`]m/
- UbX`chYfYggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY

[\hmg.#k k k "Ufmg"i bgk "YXi "Ui #W ffYbhghi XYbh\]bZcfa Uhcb`dfcVc`g!\[i \]XY`\]bYg#](#)

⇒ U[Y`7 fYX]h

GmbYf[]Yg`]b`Gci bX`&\$%*`

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7 cXY. '\$\$- , ;