

# EDST5440

5Xj UbWX`H9GC @A YhcXc`c[ m

GYa Yghf`Cby`##`&\$%

7ci fgY`Cj Yfj JYk


7ci fgY'8YHJ]`g

7fYX]hDc]bHg`\*`

Gi a a UfmcZh\Y'7ci fgY

⊕`h]g`Vēi fgY`mēi` [ U]b`bYk`'cf'i dXUH'X'g\_]`g`]b`h\Y`gdYW]U]ghH9GC @Z]Y`X" `Mēi` `Yb[ U[ Y`k` ]h`UXj UbW'X`  
`Ub[ i U[ Y`h'UW]b[ `a`Yh'cXc`c[ mUbX`]hg`dfUW]W]`Udd`]W]h]cbg`h'fci [ \`U`dfc[ fUa`'cZgYa` ]bUfg`UbX`cb`]bY`  
]bH'fUW]cbg" `Hcd]Wg`Vēj`Yf`X]ZZYfYbhUddfcUW]Yg`hē`9b[ `]g\` `Ub[ i U[ Y`YUfb]b[ `UbX`h'UW]b[ ž`bW] X]b[  
YZZYW]j`Y`h'UW]b[ `gh'UH[ ]Yg`UbX`h'W]b]ei`Yg`Zc`f`h'UW]b[ `fYUX]b[ ž`k`f]h]b[ ž`]gh'b]b[ `UbX`gdYU\_]b[ ž`  
a`UH'f]U`g`XYj`Y`cda`Ybž`UbX`h'Y`d`Ubb]b[ `UbX`Yj`U`i`Uh]cb`cZ]bX]j`]Xi`U`Yggcbg`UbX`i`b]hg`cZk`cf\_`"H\Y`fc`Y`

]b`hY`ZY`X`bYYX`fc`WcbghUbhmfYZYW`i`dcb`UbX`fY!Yj`U`i`UH`hY]f`i`bXYfghUbX]b[`g`cZ`Ub[`i`U[`Y`UbX`\ck`VYghfc`hYUVX`]h`H\Y`Wci`fgY`h\i`g`U]a`g`fc`Wf]hWU`mUbU`mgYz`fYj`]gY`UbX`YI`h`bX`gh`XYbhg`'`i`bXYfghUbX]b[`UbX`dfUW]W`cZhY`WcfY`UddfcUVX`Yg`UbX`h`VX`b]ei`Yg`cZH9GC`@`a`YhcXc`c[`m`

5i ghfU`]Ub`DfcZYgg]cbU` ; fUXi UhY`HYUWx]b[ `GHUbXUfXg

GfU`XUfX	8YgW]dhcb
&"%%"	8Ya cbghfUH`_bck`YX[Y`UbX`i bXYfghUbX]b[ `cZHY`W`bW`drg`gi VghUbW`UbX`grfi W`fY`cZHY`W`bhYbhUbX`HYUWx]b[ `ghfUH`[ ]Yg`cZHY`HYUWx]b[ `UfYU"
&"%"	Gi ddcfhW`YU[ i Yg`i g]`%`W ffYbhUbX`W`a`%`fY`Ybg]j Y`_bck`YX[Y`cZW`bhYbhUbX`%`HYUWx]b[ `ghfUH`[ ]Yg`hc`XYj Y`cd`UbX`]a`d`Ya`YbhYb[ U[ ]b[ ``YUfb]b[ `UbX`HYUWx]b[

j Y`\_bck`



a UHrf]U`g'UbX'hUg\_g'WkcgYbž'Ug:k Y``Ug'hkY]f'gi ]hUV']mžcf'hkY'WčbhYI h]b'k \]W'nci 'k ci 'X'bcfa U`m  
h'UWX''fl \$\$\$'k cfXgŁ

Hi fb]h]b'gYh]b[ . H\]g'Ugg][ ba Ybh]g'gi Va ]hYX'hkfcI [ \ 'Hi fb]h]b'UbX'gh XYbhg'WUbb'gYY'Hi fb]h]b'g]a ]'Uf]m  
fYdcfng"

Gi Va ]gg]cb'cZ5ggYgga YbhHUg\_g

Gh XYbng'UFY'YI dYW'X'hc'di h'AY]f'bUa Yg'UbX'ghi XYbhbi a VYfg'cb'Yj YfmdU[ Y'cZ'AY]f'Ugg][ ba Ybng"

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

zmc i 'YbWci bhYf'U'dfcV'Ya 'k \Yb'U'HYa dh]b[ 'hc'gi Va ]hmc i f'Ugg][ ba Ybh'fci [ \ 'Hi fb]h]bzd'YUgY  
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-', ) ' ' ' %cf'Ya U]'h'Ya 'cb'[YI HYfbU'HY'fji ddcfh 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'mYUfL' zmc i  
UFY'i bUV'Y'hc'gi Va ]hmc i f'Ugg][ ba YbhXi Y'hc'U'ZU' 'hk ]h'Hi fb]h]b' mci 'a UmiUdd'm'Zcf'Ub'YI HYbg]cbz'Vi hmc i  
a i ghfYhU]b' mci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb[ 'k ]h'Ubmc'h'Yf'fY'Yj UbhXcW a Ybng'hc  
]bW' XY'Ug'Yj ]XYbW'hc'gi ddcfhmci f'YI HYbg]cb'Udd' ]W]h]cb" zmc i 'Ya U]'9I HYfbU'Gi ddcfhmci 'k ]`  
Ui 'ca U]W' m'fYW'j] Y'U'h]W\_Yhbi a VYfz'Vi h]Zmci 'HY'Yd\cbY' mci 'k ]`b'YX'hc'gdYW]W' m'Ug\_'Zcf'cbY"  
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUHYg'cb'h'AY]f'gmghYa 'ghU'g'cb'Hk ]HYf"

; YbYfU'mz'UggYgga YbhHUg\_g'a i ghVY'gi Va ]HYX'Y'YWfcb]W'mj ]U'Y]h'Yf'Hi fb]h]b'cf'U'A ccX'Y  
Ugg][ ba Ybh' b ]bg'U'bw'g'k \YfY'h' ]g' ]g'bchidcgg]V'YZ'jhk ]`VY'g'U'HYX'cb' mci f'Wci fgY'g'A ccX'Y'g]HY'k ]h  
U'HYfbU]h] Y'gi Va ]gg]cb'XYhU]g"

@UH'5ggYgga YbhDYbU'h]Yg



f`G][ b]Z]WbhmUZZYWhmci f`dYfZcfa UbWV`]b`UggYggUV`Y`k cf\_žVY`]hU`Zcfa U`YbX!cZgYa Yghf`YI Ua ]bUh]cbžU  
WUgg`hYghž`U`UVcfUhc fmi`hYghž`U`gYa ]bUf`dfYgYbUh]cb`cf`Ubmich`Yf`Zcfa`cZUggYgga`YbH`

: cf`Z`f`h`Yf`XYhU]`g`]b`f`Y`Uh]cb`hc`GdYWU`7`cbg]XYfUh]cb`]bWi`X]b[`K`Yb`hc`5dd`mž`<`ck`hc`5dd`m`UbX  
"Gi`ddcfh]b[`8`cW`a`YbUh]cb`"d`YUgY`fYZYf`hc`h`Y`GdYWU`7`cbg]XYfUh]cb`k`YVgh]Y`.

[\hdg.#gh`XYbhi`bgk`"YXi`"Ui`#gdYWU`!Wcbg\]XYfUh\]cb](#)

## 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" #WU b'hU\_Y'a Ubm Zcfa gž Zca`XY]VYfUHY`WXYU]b[ 'hc`UWV]XYbU`mWčdm]b[ Zca`U`gci fW`k ]hci hUW\_bck`YX[ Ya Ybh'

I BGK`[ fci dg'd`U[ ]Uf]ga`]bhc`hY`Zc`ck ]b[`WUHY`[ cf]Yg.

7cdm]b[.`i g]b[ 'hY`gUa Y`cf'j Yfmg]a ]Uf'k cfXg'hc`hY`cf][ ]bU`hYI hcf]XYU`k ]hci 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[ Ygž UfhUbX`XYg][ b`dfc`YWgž Ug`k Y`Ug`dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]Ubc`hYf'g`]XYUg'cf'k cfXg`k ]hci hWYX]h'

#Uddfcdf]UHY`dUfUd`fUg]b[.`WU]b[ ]b[`U`ZYk`k cfXg'UbX'd`fUgYg`k \]Y`a cghmfYU]b]b[ 'hY`cf][ ]bU`g]fi W`fY`UbX`]bZcfa U]cb`k ]hci hUW\_bck`YX[ Ya Ybh`H\]g'U`gc`Udd`Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`Ubc`hYf'g`]XYUg'cf'k cfXg`k ]hci hWYX]h' #U`gc`Udd`Yg'hc`]d]YW]b[ `hc[ YhYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k \c`Yžk ]hci hfYZfYbW]b[`UbX`U`gh`XYbh]g`ck b`UbU`mg]g`hc`Vf]b[ 'hY`a`UHYf]U`hc[ YhYf"

7c`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\_" 7c`i g]cb`U`gc`]bWi XYg'dfcj ]X]b[`mci f'k cf\_]hc`Ubc`hYf`gh`XYbhVYZc`fY`hY`Xi Y`XUHY`žcf`Zc`f`hY`di fdcgY`cZ`hYa`d`U[ ]Uf]g]b[`UhUbmi]a Yž`dUm]b[`Ubc`hYf`dYfgcb`hc`dYfZc`fa`Ub`UWUXYa`]WU]g\_ž`ghU`]b[`cf`UWči`]f]b[`Ubc`hYf`dYfgcb`g`UWUXYa`]Wk cf\_]UbX`Wč`dm]b[`]ž`c`ZYf]b[`hc`Wč`a`d`YHY`Ubc`hYf`dYfgcb`g`k cf\_]cf`gYY\_]b[`dUma`YbhZc`f`Wč`a`d`YH]b[`UWUXYa`]Wk cf\_"

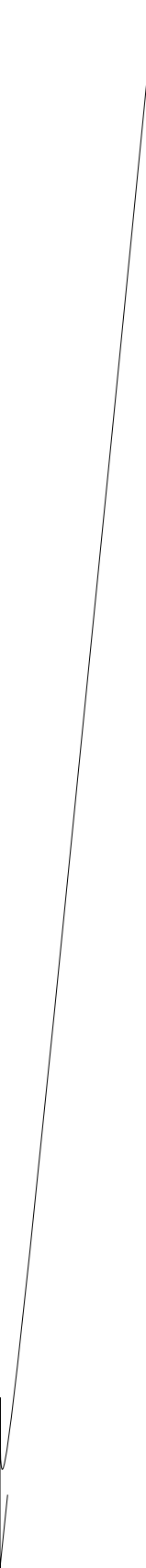
#Uddfcdf]UHY`WU]cb.`7 ]h]b[`gci fW`g`k \]W\`Uj`Y`bchVYYb`fYUXž`k ]hci hUW\_bck`YX[ ]b[`hY`gYWč`bXUfm`gci fW`Zca`k \]W`\_bck`YX[ Y`cZ`hYa`U`g`VYYb`cVU]b]YX"

8i`d`]WU]cb`ffgY`Zd`U[ ]Uf]ga`"E`gi Va`]h]b[`mci f'ck b'k cf\_ž]b`k \c`Y`cf]b`dUfž`k \YfY`]h\`Ug`dfYj`]ci g`m`VYYb`dfYdUfYX`cf`gi Va`]hYX`Zc`f`Ubc`hYf`UggYgga`Ybhcf`Wč`i fgY`Uhi`BGK`cf`Ubc`hYf`i`b]j`Yfg]m'

7c`ffYW`fYZYfYbW]b[`dfUW]W]g.

- DUFUd`fUg]b[`žgi`a`a`Uf]g]b[`žYggUm`k`f]h]b[`UbX`h]a`Y`a`UbU[`Ya`Ybh`
-

- VYhYf'a UbU[ Y'mci f'hja Y
- i bXYfgHUbX'mci f'f][ \hg'UbX'fYgdcbg]V]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'W'dmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5WwdfUV'Y'l gY'cZ  
I BGK '⇒H'F Ygci fW'g'Dc`]Wñ






## F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

- 6i fbgž5"UbX`F ]WUfXgž>"f9Xgl"&\$%&"FZW5S\_ Td[VYW9g[VWfa BWSYaYk S` V BdSuf[UW[ E WJa` V >S` YgSYWFWSUZ[ Yž7 Ua Vf]X[ Y. 7 Ua Vf]X[ Y`I b]j Yfg]miDfYgg"

F YWca a YbXYX`F Ygci fWg

- 6UhgřcbYžF "f%- - (L"9 dS\_ \_ SčCI Zcfx. CI Zcfx`I b]j Yfg]miDfYgg"

8 U`řcbž7 / `GY]XY`cZfž6" f%- - , E`Bda` g` U[Sf[a` "CI Zcfx. CI Zcfx`I b]j Yfg]miDfYgg

%o %o