

# **CRIM1010**

7 f]a ]bc`c[ m˙5b˙±bfcXi W•]cb

HYfa 'C bY''##'&\$%

# 7ci fgY 8YW] g

#### 7 fYX]hDc]bhg \* \*

## Gi a a UfmcZh\Y'7ci fgY

Gi VYWi5fYU. '7 f]a ]bc`c[ mi+blfcXi Wyg'h\Y'\_YmWcbWydhg'UbX'WyffYbhXYVUhyg']b'Wf]a ]bc`c[ mi'7 cj Yfg'VUg]W ]ggi Yg'gi W\'Ug'h\Y'XYZ|b]h]cbz'a YUgi fYa YbhUbX'Yl d`UbUh]cbg'cZWf]a Yz'gcWJYhU`'fYUWf]cbg'hc'Wf]a Yz'Wf]a ]bc`c[ ]WU`'h\Ycf]Ygz'h\Y'fc`Y'cZfYgYUfW\'UbX'h\Y']bZi YbW''cZWf]a ]bc`c[ mcb'di V`]Wdc`]Wh'

#### 7 ci fgY @YUfb]b[ Ci hMca Yg

- %" Cih]bY'h\Y'gWcdYž'U]a g'UbX'dfUWfJWYg'cZ7f]a ]bc`c[mUg'U'X]gWJd`]bY/
- &" ⇒XYbh]Zm\_Ymd`UmYfgžh\Ya YgʻUbX`XYVUhYgʻUVci hWf]a Y
- ' " 8 Ya cbglfUllY 'Ub'i bXYfglUbX]b[ 'cZ\_YmWf]a ]bc`c[ ]\\\\\' \h\Ycf]Yg'\\bX'\\\ b\\\' d\\g'\\\ fci [ \ '\\\forall \]\\\\\' \\\\ yb[ \U[ Ya Ybhk ]\\\\' \`]\\\Yf\bY \g'\\bX'\ch\\Yf'a YX]\\
- ("8YgWf]VY`U`j Uf]YhmcZk Umg`hc`XYZ|bYža YUgi fY`UbX`YI d`U]b`Wf]a Y
- ) "I bXYfgHJbX'UbX'i gY'VUg]WhYfa ]bc`c[mWcaacb'hc'h\Y'Wf]a]bc`c[]WJ``Z]Y`X
- \*" H\]b\_'Wf]hJWU``mUVci hWf]a Y'UbX']hg'WUi gYg
- +" 5bU`mgY`Wf]a Y`dfcV`Ya g`i g]b[`VUg]WWf]a ]bc`c[]WU``dYfgdYWfj Yg

## HYUWX]b[ GhfUhY[]Yg

H\]g`Wci fgY`fYei ]fYg`bc`df]cf`\_bck `YX[Y`]b`7 f]a ]bc`c[m" & `UVWcfXUbW' k ]h\ I BGK `@YUfb]b[ 'UbX HYUW\]b[; i ]XY`]bYg`k Y`YI dYWhc Yb[ U[ Y`mci ']b``YUfb]b[ 'h\fci [\'U`Wca V]bUh]cb`cZ`YWh fYgž'h hcf]U`gž ]bX]j ]Xi U``fYUX]b[ 'UbX`gh Xmž[i ]XYX`h ]h]cb`Zca '[i Ygh`YWh fYfg`UbX`UWUXYa ]Wg`k \c`UfY`UWhj Y fYgYUfW\Yfg`]b`h\Y`Z]Y`Xž'a YUb]b[ Z``ZYYXVUW\_`cb`k f]hhYb`k cf\_`UbX`h hcf]U``dUfh]W]dUh]cbž'UbX`ghi Wh fYX UWhj ]h]yg`h\UhYbWci fU[ Y`]bXYdYbXYbhh\]b\_]b[ 'UbX`h\Y`XYj Y`cda YbhcZX]gW]d`]bUfm\_bck`YX[ Y`UbX UWUXYa ]Wg\_]``g"

K Y'gYY'I BGK 'ghi XYbh`YUfbYfg'Ug'UWflj Y'dUffljWldUbhg']b'h\Y'dfcXi Wflcb'cZ\_bck `YX[Y"'H\]g'Wci fgY df]cf]h]gYg'`YUfb]b[!Vm\Xc]b['UbX'U]a g'hc'ZcghYf'U'gd]f]hcZWf]h]WU`h\ci [\h'UbX'UWflj Y'Ybei ]fm]b'U``ghi XYbh `YUfbYfg"'#i]g'YggYbh]U``h\Uh'mci 'HU\_Y'ck bYfg\]d'cZmci f'ghi X]Yg'UbX'k cf\_'cb'XYj Y`cd]b['mci f'g\_]``g'Ug'Ub ]bXYdYbXYbh`YUfbYf.

- %" +b'h\]g'Wci fgY']h]g'Yl dYWYX'h\Uh'mci 'k]``'UhYbX'Uh'`YUgh, \$i 'cZh\Y'hi hcf]U`g"'Mci 'bYYX'hc dUfh]W]dUhY']b'Vch\'`YWi fYg'UbX'hi hcf]U`g"'5```ci f'`YWi fYg'UbX'hi hcf]U`g''UfY']bhYfUW]j Y"'DfYdUfUh]cbž `]ghYb]b['UbX'Wf]h]WU``Yb[U[Ya Ybhk]h\ Wci fgY'a UhYf]U`ž`YUfb]b['Zfca 'mci f'hYUW\Yfg'Vi h'U`gc'mci f dYYfg'UfY'YggYbh]U`']b[fYX]Ybhg'Zcf'U'gi WWfggZ ``Wca d'Yh]cb'cZh\]g'Wci fgY"
- &" Mci 'bYYX'hc'd'Ub'WUfYZ ``m'UbX'i gY'mci f'h]a Y'dfcXi Wf] Y`m']Zmci 'k ]g\'hc'UW\]Yj Y'[ ccX'fYgi `hg']b h\]g'Wci fgY"'5```UggYgga Ybh'hUg\_g'g\ci `X'VY'fYgYUfW\YX'UbX'XfUZhYX'k Y```]b'UXj UbWY'cZ gi Va ]gg]cb"
- '" Mci 'UfY'fYgdcbg]V`Y'Zcf'mci f'ck b``YUfb]b[/k cf\_'hc'XYj Y`cd'g\_]``g'h\Uhik]```YbUV`Y'mci 'hc'Yb[U[Y Wf]h]WU``m'UbX'UbU'mh]WU``mk]h\`UWUXYa]W`]hYfUhi fYž'bYk g'fYdcfh]b['UbX'\$ c] a a bhg''H\]'[cc

# 5ggYgga Ybh

8 YHJ] YX 'UggYgga Ybh]bglfi Wjcbg'UbX'a Uf\_]b[ 'fi Vf]Wg'k ]```VY'a UXY'Uj U] 'UV'Y 'hc 'ghi XYbhg'Uhih\Y'VY[ ]bb]b[ cZgYa YghYf'cb'A ccX`Y''K Y'k ]```\Uj Y'hja Y']b 'h\Y'hi hcf]U`g'hc'X]gW gg'h\Y'YI dYWfUhjcbg'Zcf'YUW\UggYgga YbhihUg\_"'=\b'UXX]hjcbž'A ccX`Y'X]gW gg]cb'VcUfXg'k ]```VY'gYhi d'Zcf'YUW\'UggYgga YbhihUg\_'UbX ghi XYbhg'UfY'ghfcb[ `mYbWci fU[ YX'hc'j ]g]hih\YgY'fY[ i `Uf'mUbX'i gY'h\Y'VcUfXg'hc'Ug\_'ei Yghjcbg'UVci hih\Y hUg\_g''

#### 5ggYgga Ybh'HUg\_g'

5ggYgga Ybh'hJg_	K Y][ \h	8i Y'8UHY	Gh XYbh@YUfb]b[ Ci hWca Ygʻ5ggYggYX
5bbcHJHYX'V]V`]c[fUd\mi	(\$1	&- #\$' #&\$%- '%%\$\$'DA	' Ž) Ž*
6f]YZ]b[ 'dUdYf'	* \$1	\$' #\$) #&\$% '%% \$\$`DA	%ž&Ž ž( ž) ž+

# 5ggYgga Ybh'8YHJ]`g

5qqYqqa Ybh'% '5bbcHJhYX'V]V`]c[fUd\m

GHJfh'XUhY.

**@Yb[h**\.'\\\\$\\$'k cfXg'Y| W| X]b['fYZYfYbWYg"

**8 YHJ]`g.** '%\$\$`k cfXgGh XYbhg`k ]```fYWY]j Y`k f]hhYb`ZYYXVUW\_`UbX`U`bi a Yf]\W\``[ fUXY`k ]h\]b`hk c`k YY\_g`cZ gi Va ]gg]cb"`H\Y`fi Vf]\Wk ]```VY`Uj U]`UV`Y`hc`gh XYbhg`gc`h\Uhh\Ym\\Ub`k cf\_`hck UfXg`gdY\\]Z]YX`gh\UbXUfXg"

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

8 i f]b[ 'K YY\_'' !( 'U'dcftU`k ]```VY'cdYb`cb`A ccX`Y'k \YfY'mci 'WUb'gi Va ]hcbY'Wta d`YhYX'UbbctUhYX fYZYfYbW'Zcf`fZcfa Uhj YfiZYYXVUW\_Zfca 'mci f'h hcf"'Nci f'h hcf'k ]``'dfcj ]XY'gca Y'VUg]WWta a Ybhg`fVmh\Y YbX'cZK YY\_') Ł'h\Uha UmUgg]ghk ]h\'h\Y'dfYdUfUh]cb`cZh\Y'Z]fghUgg][ ba YbhVi hbc'Zcfa U``a Uf\_'k ]```VY fYWtfXYX"'

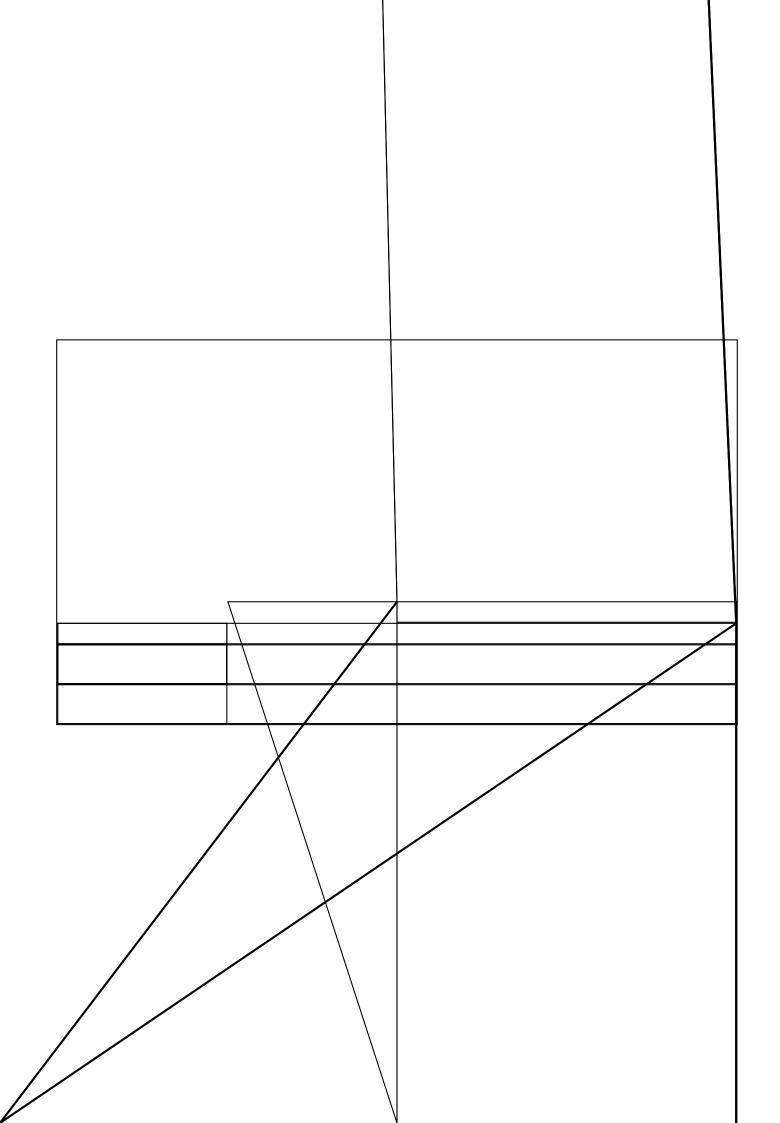
 $\label{eq:higher} \begin{tabular}{ll} High \$ 

5ggYgga Ybh& 6f]YZ]b[ dUdYf

GhUfh'XUhY.

**@Yb[h**\. &\$\$\$ k cfXg YI Wi X]b[ fYZYfYbWfg"

8 YHU]`g. `&\$\$\$`k cfXg": cfa Uhjj Y`ZYYXVUW\_`k ]```VY`dfcj ]XYX`Xi f]b[ `hYfa `hc`XYj Y`cd`h\Y`Wca dcbYbhg`cZh\Y Vf]YZ]b[ `dUdYf"Ghi XYbhg`k ]```fYWY]j Y`k f]hhYb`ZYYXVUW\_`UbX`U`bi a Yf]WU``[ fUXY`k ]h\]b`hk c`k YY\_g`cZ gi Va ]gg]cb"`H\Y`fi Vf]Wk ]```VY`Uj U]`UV`Y`hc`ghi XYbhg`gc`h\Uhih\YmWUb`k cf\_`hck UfXg`gdYW]Z]YX ghUbXUfXg"H\]g`]g`h\Y`Z]bU``UggYgga YbhZcf`h\Y`Wci fgY"



Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

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

\_Zmci YbWci bhYf'U'dfcV`Ya 'k \Yb'UhYa dhJb[ 'hc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [ \ 'Hi fb]hJbž'd`YUgY
hY`Yd\cbY'9| hYfbU``Gi ddcfhcb'-', ) '' ' ' %cf'Ya U]`'h\Ya 'cb'Y! 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'fl \*) 'XUmg'U'mYUft'' =Zmci
UfY'i bUV`Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZUi 'hk ]h\'Hi fb]hJb'mci 'a Um'Udd'mZcf'Ub'Y! hYbg]cbžVi hmci
a i ghfYhU]b'mci f'hJW\_Yhbi a VYf'Zfca '9! hYfbU`'Gi ddcfhfU'cb[ 'k ]h\'Ubmch\Yf'fY`Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj ]XYbW'hc'gi ddcfhmci f'Y! hYbg]cb'Udd`]WUhJcb'''=Zmci 'Ya U]`'9! hYfbU`'Gi ddcfhmci 'k ]``

# $5\,WUXYa\,W< cbYghmUbXDU[\,Uf]ga$

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=iWUbiHU\_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW\_bck iYX[Ya Ybh'i

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbhUhI BGK
   VY'Uk UfY'cZd`U[]Uf]ga ž'Wcdmf][\hz'I BGK 'Gh XYbh7cXY'cZ7cbXi WhUbX'5VWWdhUV`Y'I gY'cZ IBGK =7 HF Ygci fWrg Dc`]Wh

# 5 WUXYa ]W±bZcfa Uhjcb

: cf`YggYbhJU``gh XYbh]bZcfa UhJcb`fY`UhJb[ 'hc.

- fYei YghgʻZcfʻYl hYbg]cb/`UhYʻgi Va ]gg]cbgʻ[i ]XY`]bYg/
- fYj ]Yk 'cZa Uf\_g/
- I BGK < YU`h\ UbX GUZYmdc`]W]Yg/
- YI Ua ]bUh]cb dfcWXi fYg/