



# HUMS2000

5fhg`±bhYfbg\]d

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

GWCC``CZGCWJU`GWJYbWYg`'#'' BGK '5fng'UbX'GCWJU`GWJYbWYg

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# 7 ci fgY<sup>-</sup>Cj Yfj ]Yk

# `GHJZZ`7cbHJWh`8YHJ]`g`

# '7cbj Ybcfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
@ci ]gY Gh XXm	@"Ghi XXm4 i bgk "YXi "Ui	6mUddc]bha Ybhj ]U Ya U]`	; )\$AcfjYb 6fckb	-',)%**&

## GWXcc``7cbHJWhi=bZcfaUhjcb

GVXcc``cZGcWJU``GWJYbWYg

Fcca '%)-

A cfj Yb 6fck b 7 &

Ya U]`. gcgg4 i bgk "YXi "Ui

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

# 7ci fgY<sup>·</sup>8YHJ]`g

## 7 fYX]hDc]bhg<sup>·\*·</sup>

### Gi a a UfmcZhXY7ci fgY

GiVYWNi5fYU.3dfe

H\]g`WcifgY`WUb`U`gc`VY`ghiX]YX`]b`h\Y`Zc``ck]b[`gdYW]U`]gUh]cbg.`5d[\_[`a^aYkł?WV[S/?WV[SBdaVgUf[a`fi ?WV[S/EUd/WV`S`VEag`Vfi?WV[S/5a\_\_e`<agd`S^[e\_fi?WV[S/BgT7[UDWSf[a`eS`V3VhWdf[e[`Yfi

H\Y`<IAG`&\$\$\$`WcifgY`]g`Ub`Y`YWfjY`]b`H\Y`IBGK``5ffg`UbX`GcWJU``GWJYbWYg`dfc[fUag`UbX`H\Y 7f]a]bc`c[maU'cf`gffYUa`]b`H\Y`6UWXY`cf`cZDgmWXc`c[]WU``GWJYbWYg`dfc[fUa"`+fiaUmVY`HJ\_Yb`UhH\Y`YbX cZU`ZJfghmYUf`cZghiXmUbX`cZZYfg`ghiXYbfg`kcf\_`YIdYf]YbWY`]b`U`fUb[Y`cZcf[Ub]gUh]cbg`ih]`]g]b[`gcWJU` fYgYUfWX`UbX`dc`]WmUbX`\iaUb]hJYg`g\_]``g"

H\Y'j cWUhjcbU``d`UWYa Ybhž'k \]W\`]g'k cf\_YX`]b'h\Y`GmXbYma Yhfcdc`]hUb`UfYUž'dfcj ]XYg'k cf\_'YI dYf]YbWY UhU`\cghcf[Ub]gUhjcb'Zcf'%( 'Z ```XUmg'f%\$) 'k cf\_]b[ `\ci fgt"'H\]g'dfUWjWU``YI dYf]YbWY`]g'UWWca dUb]YX`Vm U'fYUX]b[ `dfc[ fUa "`H\Y`fYUX]b[ `Wca dcbYbhYI Ua ]bYg'X]ZYfYbhUddfcUW\Yg'hc'h\Y`gh XmcZcf[ Ub]gUhjcbgž h\Y]f'ghfi Wi fYgž'Z bWjcbg'UbX'dc`]WjYgž'Ug'k Y```Ug``]b\_g'h\YgY`]ggi Yg'hc'h\Y`d`UWYa YbhYI dYf]YbWY"

**BchY**. `Ghi XYbhg'a i gh\Uj Y'UW\]Yj YX'U'WfYX]h`Yj Y``cf`VYhYf`Uj YfU[ Y'UWfcgg'h\Y'Wci fgYg`]b`h\Y]f`XY[ fYY" H\Y`]bhYfbg\]d`a UmVY`]bWi XYX'Ug`dUfhcZU`a U'cf`ghYUa `]b'h\Y`: UW``hmdfc[ fUa g`k ]h`h\Y`dYfa ]gg]cb`cZ h\Y`fY`Yj Ubh7cbj Ybcf"

: cf`XYHJ]`g`cb`\ck 'hc`Udd`md`YUgY`WcbHUWiH\Y`: UW`hmK cf\_`=bHY[fUHYX`@YUfb]b[`I b]h.`<u>: 5GG!</u> <u>K =@4 i bgk "YXi "Ui</u>"

### 7cifgY`@YUfb]b[`CiHWcaYg

%"K f]hY`Ub`WF]h]WU`!UbU`mg]g!VUgYX`YggUmžYj]XYbWY`cZUWAjcb`fYgYUfWX &"6Y`]bjc`jYX`]b`Ub`UWAjcb`fYgYUfWX`dfc^YWA '"7cad`YhY`U`Vig]bYgg`cf]YbhYX`hUg\_`` ("IbXYfghUbX`h\Y`XmbUa]Wg`cZkcf\_]b[`k]h\]b`cf[Ub]gUh]cb

# HYUWX]b[ GHfUHY[]Yg

 $HYUW \ b[\ GhfUhY[\ ]Yg^{*}UbX^{*}F\ UhcbU^{*}Y.$ 

H\Y'dfUWMJWU``jcWWhjcbU``d`UWYaYbh`gW\YXi`Y`]g`giddcfHYX'VmU`fYUX]b[`dfc[fUa`h\UhYIUa]bYg`X]ZYfYbh UddfcUW\Yg`hc`h\Y`ghiXmcZcf[Ub]gUhjcbg`fh\Y]f`gHfiWhifYgž'ZbWhjcbg`UbX`dc`]WJYgŁUbX``]b\_g`h\YgY`]ggiYg hc`h\Y`d`UWYaYbhYIdYf]YbWY"

Ghi XYbhgʻk ]```gdYbX`%\$) `k cf\_]b[ `\ci fg`UhU`\cghcf[ Ub]gUh]cb`UbX`k ]```\Uj Y`h\Y]f`k cf\_`Yj U`i UhYX`Vmh\Y \cghcf[ Ub]gUh]cb"'=b`UXX]h]cbž`ghi XYbhgʻk ]```Wca d`YhY`UXU]`mX]UfmUbX`Ub`YggUmVUgYX`cb`h\Y]f`UbU`mg]g cZh\Y`cf[ Ub]gUh]cb"`H\Ymk ]```U`gc`Wca d`YhY`Ub`Yj U`i Uh]cb`cZh\Y]f`k cf\_d`UWY`YI dYf]YbWY`Ug`ZYYXVUW\_`hc h\Y`Wci fgY`Wcbj Ybcfg

H\]gʻWcifgYʻ]gʻUʻfYUX]b[ʻdfc[fUaʻUbXʻghiXYbhgʻUfYʻYIdYWhYX'hcʻVYʻ]bXYdYbXYbhUbXʻgY`ZXfYWhYX `YUfbYfg"`7 cifgY`WcbjYbcfgʻa YYhghiXYbhgʻcbʻUbʻUg!bYYXgʻVUg]g" 6YZcfY`VY[]bb]b[`Ub`j cWUh]cbU``d`UWYa YbhžthY`gWcdY`cZU`ghi XYbhfg`j cWUh]cbU``d`UWYa YbhUWfj]]h]Yg`k]`` VY`U[fYYX`k]h\`thY`\cghcf[Ub]gUh]cb"`Ghi XYbhg`k]```\Uj Y`U`ghfcb[`j c]WY`]b`thYgY`]b]h]U``bY[ch]Uh]cbg`UbX k]``VY`Ug\_YX`hc`g][bU``thY]f`U[fYYa Ybh'`5`ghi XYbhWca a YbW]b[`j cWUh]cbU``d`UWYa Ybhk cf\_`k]``VY Ugg][bYX`U`\cghigi dYfj]gcf`hc`a UbU[Y`thY]f`gdYW]Z[Wj cWUh]cbU``d`UWYa YbhUWfj]]h]Yg"

Ghi XYbhgʻUfYʻYbfcʻʻYXʻ]bʻ<LAGʻ&\$\$\$ʻUZhYfʻUʻ\cghicf[Ub]gUh]cbʻ\UgʻVYYbʻgci fWYXʻUbX'h\Yʻ7 ci fgY 5WUXYa ]W\UgʻYbXc

# 5ggYgga Ybh

5```ghi XYbhg`bYYX`hc`a YYhh\Y`7cbj Ybcf`UZhYf`UVci hhk c`XUmg`cZh\Y]f ]bhYfbg\]d`cf`YUf`]Yf`]ZU`gi a a Yf`]bhYfbg\]d"`Bchcb`m]g`h\Y`UWUXYa ]W k cf\_`WUf]Z]YX`Vi hh\Y`7cbj Ybcf`Ugg]ghg`h\Y`ghi XYbhg`]b`h\Y XYj Y`cda YbhcZU`ghi XmZcW g`Zcf`UggYgga Ybh%UbX`&`fgUa Y`hcd]W]g i gYX`Zcf`Vch\Ł"

5ggYgga YbhHUg\_g

5ggYgga YbhˈtJg_	K Y][ \h	8iY`8UHY	GhiXYbhi@YUfb]b[ CihWcaYgʻ5ggYggYX
8fUZhi9ggUmD`Ub'GiaaUfmi	%) I	+h\`XUmcZ]bhYfbg\]d	%
FYZYWNJY'>cifbU``	%) ı	%(`XUmg`UZhYf`]bhYfbg\]d Wcad`YhYX	&ž(

#### GHJfhXUHY. Bch5dd`]WUV`Y

#### @Yb[h\.b#J

**8YHJ]`g**. `H\]g`XcYg`bchHJ\_Y`]bhc`Wcbg]XYfUh]cb`h\Y`k cf\_d`UWY`Wca dcbYbH``H\]g`]g`h\Y`Z]bU``UggYgga Ybh HUg\_`Zcf`h\]g`Wci fgY": YYXVUW\_Zca `\cghigi dYfj ]gcf"

Hi fb]h]b'gYh]b[.'H\]g`]g'bchU'Hi fb]h]b'Ugg][ ba Ybh

5ggYgga Ybh(. Cf[Ub]gUh]cbU`YggUm

GHUfhXUHY. Bch5dd`]WUV`Y

@Yb[h\.'&\$\$\$'k cfXg

8YHJ]`g. ``%`cZ&`I `: ]bU``YggUmg`&\$\$\$`k cfXg`K f]HYb`ZYXVUW\_

#### 5XX]h]cbU`XYHJ]`g.

<cghYj U`i Uh]cb`]g`gYbhVmi BGK `+H`Ufci bX`h\Y`h]a Y`h\Uh]bhYfbg\]d`]g`Wca d`YhYX"`Ghi XYbhg`UfY YbWci fU[ YX`hc`fYa ]bX`gi dYfj ]gcfg`hc`Wca d`YhY`hc`Uj c]X`XY`Um]b`h\Y]f`fY`YUgY`cZa Uf\_g"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ ba Ybh]g`gi Va ]hYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a ]`Uf]hm fYdcfhg"

# FYgci fWg

### DfYgWf]VYX F Ygci fWfg

5b\Y]Yf`<?`f&\$\$) Ł`Bcb!dfcZ]hCf[Ub]gUh]cbg. `H\YcfnžAUbU[YaYbhž`Dc`]Whž`5V]b[XcbžI?ž Fci hYX[Y"`f15`a i ghfYUX`Zcf`gh`XYbhg`]b`BchZcf`DfcZ]hcf[Ub]gUh]cbg"Ł

7`Uf\_Y`H`UbX`7`Y[[`GF`f&\$\$\$L'7\Ub[]b[`dUfUX][ag.`H\Y`HfUbgZcfaUh]cb`cZ`AUbU[YaYbh ? bck`YX[Y`Zcf`h\Y`&%gh'7Ybhifmž`@cbXcbž'<UfdYf`7c``]bg"`

7`Y[['GFž?cfbVYf[Yf`AAžUbX`D]hg]g`HG`f&\$%\*Ł'AUbU[]b[`UbX`Cf[Ub]nUh]cbg. 5b`=bhfcXiWh]cb`hc H\YcfmUbX`DfUWh]WY`f(h\`9X]h]cbŁž'@cbXcbžG5; 9`DiV`]WUh]cbg"

7`Y[[`GFž<UfXm7ž@UkfYbWY`H6`UbX`BcfX`KF`fYXg"Łf&\$\$\*ŁH\Y`G5; 9`\UbXVcc\_`cZcf[Ub]nUh]cb ghiX]Yg`f&bX`9X]h]cbłž@cbXcbžG5; 9`DiV`]WUh]cbg"

8UZhF@f&\$%\*±Cf[Ub]gUh]cb'H\YcfmUbX'8Yg][b'ff&h\'9X"±6cghcbžIG5ž7Yb[U[Y'@YUfb]b["'G\UZf]m >A ž'ChhG>'UbX'>Ub['MG'f&\$%) ±'**7`Ugg]Wg'cZ'Cf[Ub]nUh]cbU`'H\Ycfm**f]h\'9X"±'6Y`acbhž'7U`]Z K UXgk cfh\"'

`K ccX`>žNYZUbY`F A ž: fca \c`m`A žK ]YgbYf`F žA cff]gcb`F ž: UWcf`5žA V? Yck b`HžGVXYfa Yf\cfb`fbfŁ >F ž<i bh>; žUbX`C gVcfb`F B`f&\$%) ŁCf[ Ub]gUh]cbU``6Y\Uj ]ci f. '7 cfY`7 cbVW/dhg`UbX`5dd`]WUh]cbgž : ci fh\`5i ghfU`Ug]Ub`9X]h]cbž`5i ghfU`]UžK ]`YmUbX`gcbg"`

### FYWca a YbXYX FYgci fWYg

7`Y[['GF'f%--\$Ł'AcXYfb'Cf[Ub]gUh]cbgž'@cbXcbžG5; 9`DiV`]WUh]cbg"'f7\UdhYfg'%'rc''Ł

8i bZcfX'F'f%-&L'Cf[Ub]gUh]cbU``6Y\Uj]cif.`5b'Cf[Ub]gUh]cbU``5bU`mg]g'DYfgdYWh]jYžGmXbYmž 5XX]gcb'K Yg`Ym"f7\UdhYfg'%z'&z') 'UbX'+'Vi hth.Y'k\c`Y'Vcc\_']g'k cfh\th.Y'fYUX]b['YZcfhUbX'k]``dfYdUfY mci'kY``L

? Ymtcbž>"``f&\$\$) Ł'7 ca a i b]WUh]cb`UbX`Cf[Ub]gUh]cbU``7i `hi fY"`5`? Ymtc'l bXYfgHUbX]b[`K cf\_ 9I dYf]YbWYg"'@cbXcbž`GU[Y`Di V`]WUh]cbg"`f7 \UdhYfg`%&`UbX`' `Vi hik cfh\``cc\_]b[`Uhitc`[U]b`[fYUhYf i bXYfgHUbX]b[`cZW``hi fY`]b`cf[Ub]gUh]cbg"'Ł'

A cf[Ub'; 'f&\$\$\*'E'=a U[Yg'cZ'Cf[Ub]gUh]cbgz'fldXUhYX'YX]h]cbE'H\cigUbX'CU\_gz'G5; 9'DiV`]WUh]cbg" fHohfcXiWh]cb'UbX'7\UdhYfg')z'\*z', z'-'UbX'%/VihU[U]b'h\Y'k\c`Y'a Yf]hg'UhhYbh]cbE

łł5fn]WYgicbih\Yi]bhYfbg\]diYI dYf]YbWYik]``VYifYWca a YbXYXiZcfih\YiFYZYWjcbidUdYfik \Ybighi XYbh a YYhgi5WUXYa ]W7cbj Ybcfi'Łi

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

]bhYfbg\]dž'Ya U]`g'UfY'fY[i`Uf`migYbhhc`gYY'\ck`h\Y'ghiXYbhi]g'dfc[fYgg]b[`k]h\'h\Y'fYUX]b[gždfc[fYgg'cb h\Y]f'UggYgga Ybhg'UbX'i dXUhY'cb'\ck`h\Y']bhYfg\]d']g'Zcf'h\Ya"': c``ck`i d'a YYh]b[g'WUb'VY'UffUb[YX'Vm Ya U]`"

### 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'UthYa dhjb[ 'tc'gi Va ]hmci f'Ugg][ ba Ybht\fci [ \'Hi fb]hjbžd'YUgY hY'Yd\cbY'9I hYfbU'`Gi ddcfhcb'-', ) '' ' %cf'Ya U]`'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'fl \*) 'XUmg'U'mYUfŁ''Zmci UfY'i bUV'Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi `hk ]h\'Hi fb]hjb'mci 'a UmUdd`m'Zcf'Ub'YI hYbg]cbžVi hmci a i ghfYhU]b'mci f'hjW\_Yhbi a VYf'Zfca '9I hYfbU'`Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc ]bWi XY'Ug'Yj ]XYbWY hc'gi ddcfhmci f'YI hYbg]cb'Udd`]WUhjcb"'Zmci 'Ya U]`'9I hYfbU'`Gi ddcfhimci 'k ]`` Ui hca UhjWU'`mfYWY]j Y'U'hjW\_Yhbi a VYfžVi h]Zmci 'hY'Yd\cbY'mci 'k ]``bYYX'hc'gdYWJZJWU'`mUg\_'Zcf'cbY" Hi fb]hjb'U`gc'dfcj ]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUhi g'cb'Hk ]hYf"

; YbYfU``mž'UggYgga YbhHUg\_g'a i ghVY'gi Va ]HHXXYYWYfcb]WU``mj ]U'Y]H\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ ba Ybh''=b`]bgHUbWYg'k \YfY'H\]g']g'bchdcgg]V`Yž']hk ]``VY'gHUHYX'cb'mci f'Wci fgY'g'A ccX`Y'g]HY'k ]H\ U`HYfbUh]j Y'gi Va ]gg]cb'XYHU]`g''

: cf`]bZcfa Uh]cb`cb`\ck 'hc`gi Va ]hUgg][ ba Ybhg`cb`]bY`j ]U`A ccX`Y.`\hhdg.##gh XYbh'i bgk "YXi "Ui #\ck! gi Va ]hUgg][ ba Ybha ccX`Y

# 5WUXYa]W<cbYghmUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[`H\Y`k cfXg`cf`]XYUg`cZcH\Yfg`UbX`dfYgYbh]b[`H\Ya `Ug`mci f`ck b"`+hWUb`HU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUHY`W\YUH]b[`Hc`UWW]XYbHU``mWcdm]b[`Zfca `U`gci fWY`k]H\ci hUW\_bck `YX[Ya YbH'

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug'U'gh'XYbh'Uh'I BGK
  VY`Uk UfY`cZd`U[]Uf]ga ž'Wcdmf][\hz`I BGK 'Gh'XYbh'7cXY'cZ7cbXi Wh'UbX'5WWYdHJV`Y`I gY`cZ IBGK - THFYgcifWfg Dc`]Wm

# 5WUXYa]W=bZcfaUh]cb<sup>.</sup>

: cf<sup>·</sup>YggYbhJU<sup>··</sup>gh XYbhJbZcfa UhJcb<sup>·</sup>fY<sup>·</sup>UhJb[<sup>··</sup>hc.

• fYei YghgʻZcfʻYl hYbg]cb/