



# **ARTS2690**

GYa UbhjWg UbX DfU[a UhjWg

HYfa 'H\fYY''##'&\$&\$

# 7ci fgY<sup>·</sup>Cj Yfj ]Yk

# GHUZZZZ Zharbuhu&Wri83;YHU]`g

7 c bjj ¥tbæftg

## 7ci fgY<sup>·</sup>8YHJ]`g

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

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

♣ 1A ]g Wci fgY mci 'k ]``YI d`cfY A Y bUh fY UbX gWcdY cZgYa Ubh]Wg UbX dfU[ a Uh]Wg UbX A Y]f d`UWY k ]A ]b @]b[ i ]gh]Wg "Hcd]Wg ]b gYa Ubh]Wg ]bWi XY. A Y bUh fY UbX UbU`mg]g cZYI ]WU`a YUb]b[ gžA Y fY`Uh]cbg\]d VYhk YYb a YUb]b[ UbX Wc[ b]h]cbžA Y fY`Uh]cbg\]d VYhk YYb gYa Ubh]Wg UbX [ fUa a UfžUbX gYa Ubh]W WUb[ Y" Hcd]Wg ]b dfU[ a Uh]Wg ]bWi XY. gdYYW. UWhA Ycfmž dc`]hYbYgg A Ycfmž ]a d`]WUh fY UbX dfYgi ddcg]h]cb" Mci 'k ]``\Uj Y h\Y cddcfh b]mhc Yb[ U[ Y k ]A UbX UbU`mgY [ Ybi ]bY`]b[ i ]gh]WXUhU" Mci k ]``Udd`mh\YgY ]XYUg bchcb`mhc 9b[ `]g\ž`Vi hhc ch\Yf``Ub[ i U[ Yg mci `\_bck "

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

- %"8]gh]b[i]g\`Uacb[`h\Y`WcbWYdhg`cZgYbhYbWY`aYUb]b[žihhYfUbWY`aYUb]b[`UbX`gdYU\_Yf`aYUb]b[
- &" 5dd`miUddfcdf]UhY XYgWf]dh]j Y UbX UbU`mf]WU``dfcWfXi fYg hc h\Y Z]Y X cZ]bei ]fmcZdfU[ a Uh]Wg UbX ]hg fY Yj UbhWcbWfdhi U``Uggi a dh]cbg
- ' "5dd`mUddfcdf]UHY`XYgWf]dHji Y`UbX`UbU`mh]WU``dfcWYXi fYg`hc`h\Y`Z]Y`X`cZ`YI ]WU`ž'd\fUgU``UbX gYbhYbh]U``gYa Ubh]Wg
- ("5bU`mgY``]b[i]gh]WXUHU`UbX`Uf[iY`H\Y`aYf]hg`cZh\Y`UbU`mg]g"

### HYUWX]b[ GhfUhY[]Yg

H\]gʻWcifgY`]gʻUbʻ]bhY[fU``WcadcbYbhcZh\Y`ibXYf[fUXiUhY``]b[i]gh]WgʻWff]W``ia"`+Đ`cfXYf`hc`ibXYfghUbX h\Y`Wc[b]h]jY`UbX`gcW]U``X]aYbg]cbg`cZ`Ub[iU[Y`]h`]g`YggYbh]U``hc`]bjYgh][UhY`h\Y`cf[Ub]nUh]cb`cZh\Y gYaUbh]WgmghYaž`UbX`h\Y`bUhifY`cZh\Y`df]bW]d`Yg`cZdfU[aUh]Wg"

9UWX 'k YY\_'h\YfY'k ]``'VY'U'hk c!\ci f``YWhi fY'fXYg][ bYX'hc'Y`UVcfUhY'cb'UbX'WUf]Zm]bZcfa Uhjcb']b'h\Y'Vcc\_g fYWca a YbXYXłźd`i g'U'cbY!\ci f`hi hcf]U`"Hi hcf]U`g'k ]``'VY'a U]b`mXYj chYX'hc'X]gW gg]b[ 'UbX'YI d`U]b]b[ 'h\Y Ubgk Yfg'hc'h\Y'YI YfW]gYg'dfcj ]XYX"

# 5ggYgga Ybh

@YWMifYg`k]```VY`dfcj]XYX`UgmbV&fcbcig`mžH\Uhi]gžmci`k]```VY`UV`Y`hc``]ghYb`cb!`]bY`UhH\Y`gW\YXi`YX `YWMifY`H]aYžUbX`fYd`Umi]hZcf`mcifgY`ZUhUbmich\Yf`H]aY"

Hincf]U`g`k]```VY`cb`]bY`UbX``]jYžGhiXYbhg`UfY`YLdYWYX`hc`VY`dfYgYbhUbX`dUfh]W]dUhY`]b`UWhj]h]Yg" DfYgYbhUh]cbg`k]```VY`XcbY`]b`fYU``h]a`Y`h\fci[\`h\Y`aYX]ia`cZ6`UW\_VcUfX`7c``UVcfUhY"

Ghi XYbhgʻk ]``'VY'dfcj ]XYX'k ]h\`cb`]bY'UWhjj ]h]Yg'YUW\'k YY\_'hc'Xc']b'h\Y]f'ck b'h]a Y"

### 5ggYgga YbhHUg\_g

5ggYgga YbhˈtJg_	K Y][∖h	8iY <sup>°</sup> 8UhY	GhiXYbhi@YUfb]b[ CihWcaYgʻ5ggYggYX
DfYgYbłUłjcb <sup>°</sup>	&\$1	cb[c]b[`]b`hihcf]U`g	&ž
DfcV`Ya 'GYh'	&\$1	&( <i>#%#</i> &\$&\$`%%\$\$`DA	(
7`Ugg`HYghg`%`UbX`&`	*\$I	%)#%\$#&\$`%%`5A/`%&#%%#&\$&\$ %%\$\$`5A</td><td>%ž&Ž</td></tr></tbody></table>	

### 5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% DfYgYbhUhjcb

GHJfh'XUhY. '&, #\$- #&\$&\$`\$&.\$\$`DA

8 YHJ]`g.

CbWY`]b`f\Y`fYfa\_YUW\`ghi XYbh]g`Ugg][bYX`fc`dfYgYbhU`fi\_fcf]U``fYUX]b[`UbX`Yb[U[Y`f\Y`cf\Yf`ghi XYbhg`]b

H\]g`]g`h\Y`Z]bU``Ugg][ ba YbhZcf`UhYbXUbWY`di fdcgYg"`H\]g`]g`U`hU\_Y`\ca Y`Ugg][ ba Ybh]b`k \]W\`gh XYbhg k]``Wca d`YhY`U`gYhcZdfcV`Ya g`UbX#cf`YI YfW]gYg`h\UhU``ck `h\Ya `hc`Udd`mh\Y`WcbWYdhg`Wcj YfYX`]b`h\Y Wci fgY"`H\Y`h]a Y`fYei ]fYX`]g`UddfcI ]a UhY`m&`\ci fg"

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

5ggYgga Ybh' . 7`Ugg'HYghg'%UbX'&

GhUfhXUhY.Bch5dd`]WUV`Y

8YHJ]`g.

- \$`a]bihYg`YUVX"`'\$i `YUVX"`HYghg`WcjYf`WcbhYbhdfYgYbhYX`]b``YWfifYg`UbX`hihcf]U`g"``Kf]hhYb`UbX`cfU` ZYYXVUW\_

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

H\YfY`UfY`&`]b!WUgg`hYghg"`H\Y`Z]fghi]g`cb`%) #%\$`Uh'%%`5A`UbX`h\Y`gYWcbX`]g`cb`%&#%%`Uh'%%`5A

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

I	I	I

K_YY_`*.`%-`CW/cVYf`!`&' CW/cVYf	Cb`]bY`5₩ <b>]</b> j ]hm	GhiXYbhgʻkUhWX`McihiVYʻj]XYcgʻUbX`Wcad`YhY UWMjj]hjYgʻcb`]bY"
K_YY_`+.`&*`CW/cVYF'!''\$ CW/cVYf	@YWhifY	DUft]WjdUbhg`]b`GYbhYbWY`AYUb]b[
	Hi hcf]U`	8 ]gWi gg`7 `Ugg`HYgh'%
	Cb`]bY`5WMjj]hm	Ghi XYbhgʻk UhW. Mci hi VYʻj XYcgʻUbX Wca dʻYhY
		UWJj ]h]Ygʻcb`]bY"
K_YY_', .`&Bcj Ya VYf'!`* Bcj Ya VYf	@YWhifY	7 cbh∕l hUbX`ŧoZYfYbWY
		GUYYX'7\UdhYf'+
	Hihof]U`	GUYYX'7\UdhYf"*
	Cb`]bY`5₩Mjj]hm	Ghi XYbhgʻk UHWA Mci hi VYʻj]XYcgʻUbXʻWca dʻYHY UWhjj]hjYgʻcb`jbY"
K YY_'`- Bcj Ya VYf'! % Bcj Ya VYf	@YWhifY	7`Ugg]W@]b[i]gh]WDfU[aUh]Wg
		7\Uda Ub`7\UdhYf`' `UbX`(
	Hihcf]U`	GUYYX'7\UdhYf'+
	5ggYgga Ybh	7`Ugg'HYgh&
		H]a YX`hYghicb`]bY`Xi f]b[ `h\Y``YWi fY`dYf]cX
	Cb`]bY`5Whjj]hm	Ghi XYbhgʻk UhW. Mci hi VYʻj JXYcgʻUbX Wca dʻYhY
		UWMjj ]hjYgʻcb`]bY"
K_YY_`%\$.`%*`Bcj Ya VYf`! &\$`Bcj Ya VYf	@YWhifY	AcXYfbDfU[aUh]Wg
		7\Uda Ub`W\UdhYf`)
	Hihcf]U`	7\Uda UbžWWUdhYf'' 'UbX'(
	Cb`]bY`5₩Ŋj]m	Ghi XYbhgʻk UhWA Mci hi VYʻj]XYcgʻUbXʻWca dʻYhY UWhjj]hjYgʻcb`]bY"

# 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 YbhN 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`mZcf'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 YbhgŁhc ]bWi XY'Ug'Yj ]XYbWY hc'gi ddcfhmci f'YI hYbg]cb'Udd`]WUh]cb'' 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'gdYWJZWU``mUg\_'Zcf'cbY" Hi fb]hjb'U`gc'dfcj ]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUh'g'cb'Hk ]hYf"

; YbYfU``mž'UggYgga YbhHUg\_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 YbH'`=b`]bgHUbWfg`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"`=h\Wb`HU\_Y`a Ubm Zcfa gžZīca `XY`]VYfUHY`W\YUH]b[ 'hc`UWV]XYbHU``mWcdm]b[ 'Zīca `U`gci fW'`k ]H\ci hUW\_bck `YX[ Ya YbH'

I BGK '[fci dg'd`U[]Uf]ga ']bhc'h\Y'Zc``ck ]b[ 'WUhY[cf]Yg.

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug`U`ghi XYbh'Uh'I BGK
- VY Uk UfY cZdU[]Uf]ga žWcdmf][ \lbzi BGK Ghi XYbh7 cXY cZ7 cbXi Wh0bX 5WW/dhUVY I gY cZ I BGK '=7 H'F Ygci fW/g'Dc']Wh
- VY Uk UfY cZh Y gHUbXUfXg cZVY Uj ]ci f YI dYWYX cZYj YfmcbY ]b h Y I BGK Wca a i b]m
- `cWUHY`gYfj ]WYg`UbX`]bZcfa UH]cb`UVci hI 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 bXYfgHJbX]b[`cZU``'h\Y fY`UhYX'UgdYWfg'cZ9@=G9'k]``\Y`d'mci 'a U\_Y'h\Y'a cghcZmci f`ghi X]Yg'Uh'I BGK "' <u>\hhd.#gi VYWf[i]XYg'`]VfUfm'i bgk "YXi "Ui #Y`]qY#UVci hY`]qY</u>