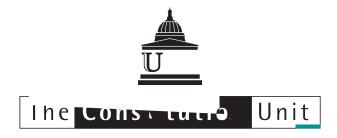
5 'DfUMd]VV'; i]XY'hc'h\Y'8UHJ' DfchYVd]cb'5Vd

Vm>c\b'K ci `Xg

8YWa VYf &\$\$(



7cbhYbhg

	UMM]Wh'; i]XY'hc'h\Y'8UhU'DfchYMM]cb'5VM)
	h gh\ gGi XY? \ca gh\YGi XYX fYMXX?	5 5
	Ca grid partyrivmize	3
%"	±bHcXi VM]cb`	+
1.1.	K \Uh]gXLHJdfchYMjcb?	7
1.2.	K\Uh]gh\YgWdY?	7
1.3.	K\c UYh\Yd`Unfg	10
&'' [.]	Gca Y'VUgIVIbYWggIhjYg'	%
2.1.	CcbXlhlcbg Zcf dfcWgglb[13
2.2.	Nch jZjWh jcb	15
I III	<ubx`]b['dyfgcbu="" 'xuhj'<="" td=""><td>%+</td></ubx`]b[>	% +
31.	DUHUW YMJcb	17
32.	DlgWcgl fYcZUbXUWMgghc]bZcfa Unlcb	19
33	DlgWcg fYhc XLHUg VYMg gi VYMiUWlgg	20
34.	EbZcfVVXgt VYVMUVVVgg	22
35.	DUŁUWci hch Yf JbXJj JXi Ug	22
36.	Oh Yf f Yei Yglg Zfca]bX j Xi Ug	23
37.	EZZWMcZFcIA	23
38	Qi U]lmcZXLfU	24
39.	GW/f]hm	25
3.10.	RYWfXga UbU Ya Ybh	25
("	K \Uh]Z]h[cYgkfcb[3	&+
) "	Hubgihjcbu dfcj jglcbg	&-
* III	: i fh\Yf`]bZcfa Uh]cb`UbX`UXj]W`	' %
6.1.	GWdYcZh\YGi]XY	31
6.2.	Gci fWgcZZ fl\Yf]bZcfa U-jcb UbXU3j JW	31

5 DfUMJVV1; i]XY hc h Y 8UHJ DfchYMJcb 5VM

K \Uh']g'h\]g; i]XY3

H\YDUHUPfch\Whjcb A\Mi1998]gUXjZZJW\hd]\YW\cZ`Y[]g`Uhjcb, Vi hXLHUdfch\Whjcb]ggla d`Y]b WbWdhUbX XcYgbchbYYXhc VY Wa d`]\WhX\cf XjZZJW\h]b dfUMjW.

K\Uhnai bYYX]gU[i]XY, k\]W hU_Ygnai hch\YaU]b Wad`]UbW [gg] YgUbXUYfhgnai hch\Ydcgg]VYd]hZU`gVi hk]l\ci hkUgh]b[naifh]a Ycb UgdYMgh\UhUYib`]_Ymhc VYfYYjUbhhcnaiffc`YUgUbcZZ]VJU |bUdiV]WUh\cf]hm

H\un']gh\Y'di fdcg\'cZh\]g; i]X\'"=n'UXXf\yg\\gh\cg\'a Uh\\fgh\Uh'Uf\'\"]_Y'mhc'W'a cgh']a dcfhUbhihc'noi '
]b'noi f'XU[\n'k cf_]b[\"]Z\''

 $\label{thm:ckmain} $$HYZ_CWg \|g cb h^cgY U_{gd}YW_{h}g cZhYAW_{h}k^]W \|bZi YbWYX_{h}gYW_{h}m^ck mai XYU k \|h \|bX|j \|Xi Ug gca Y U_{gd}YW_{h}gcZhYAW_{h}UY bchhci WYXcb UhU^(gYYgYW_{h}cb 6.1). Bi h \|Zmai Zc^ck h^YUY_{h}W \|b h^gGi \|XY, mai k \|^i bXY_{gd}U_{bX}hYa U_{b} U_{Y}U_{gcZf}\|g_k Yb mai U_{Y}U_{bX}\|b[\|bZ_{c}fa U_{h}cb U_{c}i h\|bX|j \|Xi Ug U_{bX}k \|^i \ U_{Y}U_{Y}b ghY_{g}hU_{g}k XYU k \|h hYa .$

 $H\ [i\]XYk\ Ug\ Zfghdi\ V\]g\ YX\]b\ OWk VYf\ 2001.\ H\ YfY\ Uj\ YVYYb\ hk\ c\ XYj\ Ycda\ Ybhg\ glbW h\ Yb\ h\ Uh\ u_Y$

%" =bhfcXi VM]cb

MUbi U XLHUUY Woj YFYX Vmh\Y AVMi]Zh\YmZcfa "dUfhcZUfYYj UbhZj`]b[gnghYa...BfcUX`mgdYU_]b[, h\]g a YUbg h\Uh!\Yma i ghVY ghfi Whi fYX]b gi W Uk UmUghc ZUV/]HUHY h\YdfcWegjb[cZgdYV/Z]VV]bZcfa Unjcb UVci hUb]bXjj [Xi U.

91 Ua d'Y'% FY'Yj Ubh'Z]`]b['gnghYa

A dYfgcbbY XYdUfha Ybhgffi Wai fYg |lng Z| Yg |lb gi W U k Umh\Uhh\Y Ubbi U gluzz UddfUgu Zcfa g UY_Ydh |lb UgYdUfUYZ| |lb gnghYa. H\Y Zcfa g UY |lb XY YX Vmh\Y bUa Y c Zh\Y gluzza Ya VYf UbX h\Y mYU c Zh\Y bUddfUgu. H\Y XU UZcfa "dUfhc ZufYYj UbhZ| |lb gnghYa... Ugh\Y glfi Wai fY |gg W h\UhgdYyZWbZcfa Uljcb (|Yh\Y Ubbi U UddfUgu Zcf UdUfh|W`Uf mYU) Zcf YUW gluzza Ya VYf |gfYUX| `mUWYgg|VY. H\Y XU HU k ci `X Zcfa dUfhc ZufYYj UbhZ| |lb gnghYa k |lh Ubmg|fi Wai fY k \|W UW|Yj Yg h\Y gla YYZZWAi

IZh\YdfYMgYVci bXLfmcZh\Ya Ubi U XLHUXYZ|b|h|cb |g|a dcfHLbhhc mai, h\Yb mai k |``bYYXhc HU_YUYj |W, dUn|b[Xi YfY[UXhc h\Y[i |XLbW |ggi YXVmh\YlbZcfa Uh|cb Cca a |gg|cbYf. Oi f UXj |W, h\ci [\, |ghc hfYUh U` |bZcfa Uh|cb UgXLHJ ||b k\|W WgY, h\YVci bXLf|Yg UYi b|a dcfHLbh

 $\label{thm:conditional} H.Y.XYZ]b]h]cb cZ.XLHU.Ugc]bWi.XYg.XLHU.k.]W.Zcfa dUfh.cZ.Ub.UWYgg]VY.fYWfX.(WbWYfb]b[\YUh, YXi.Wh]cb, \cigb[cf.gcV]U.gYfj]Wg UbX.k.]W.k.ci \X.bch.ch.Yfk |gY.VY.Wj YfYX.Vmh.Y.XYZ]b]h]cb. H.\]g WhY cfm|g]bWi.XYX.gc Ug hc dfYgYfj Y.WfhU]b f][\hg cZ]bX]j [Xi.Ug]b fYgdYMi.cZgi.W.XLHJ.k.]W.k.YfY dfcj]XYX]b ch.Yf Y[]gUh]cb dfY-XLh]b[\h.Y.AWf.$

9ZZYVMcZ: c=5

Ffca 1 JUbi Ufm2005, Vmj | Ifhi Y cZh\Y FcIA all a Ubi U fYWfXg\YX Vmdi V | Wu h\cf|h|Yg Wa Y k | h\ | b h\Y XYZ|b|h|cb cZ, XUHJ. k\Yh\Yf cf bchh\YmZcfa dUfhcZU, fYYj UbhZ| | b| gngh\a...3 | b| cbY fYgdYWi h\ | g gla d`|Z|Yg a Uh\fg glbW | h a YUbg h\U h\Y k Um|b k\]W dYfgcbU | b\Zcfa Uh\cb | g| fYWfXXX VmU di V | W U h\cf||hm|g bc `cb[Yf fYYj Ubh | b| Xh\fa | b|b[k\Yh\Yf h\U h|b\Zcfa Uh\cb | g, dYfgcbU XUHJ..(gYY VYck). Bi h|hXcYgbcha YUb h\U h\U h\U dYfgcbU | b\Zcfa Uh\cb | b| a Ubi U fYWfXg|gbck | fYUhX|b h\YgUa Y k UmOb`m WfhU|b dfcj | g|cbgcZh\YDPA Udd`m\fc a Ubi U fYWfXgk\]W Xc bchZcfa dUfhcZU,,fYYj UbhZ|`|b| gngh\a... (|Yh\Ya Ubi U fYWfXgVfci [\hk | h\ | b| h\YgWdYcZh\YDPA Vm\h\YFcIA). H\Ydcglh|cb | gj YfmWa d`|Wh\X BfcUXmh\Ydfcj | g|cbgh\UhUdd`mLfYh\cgYk\]W fYUhY hc UW\gg hc dYfgcbU XLHUY|h\Yf Vmh\Y|bXj | Xi U k\cgY XLHUUY\YX cf VmUh\|fX dUfm UbX h\Yf|| \hZcf h\Y | bXj | Xi U WbWfbYX hc \U Y\|g\Yf XLHU WffYMXX H\Yf\a Ub|b| | dfcj | g|cbgcZh\YDPA Xc bchUdd`m

5bmX]ZZ]W`hmcj Yf`h\Y`Vci bXUf]Yg`VYhk YYb`h\Y`X]ZZYfYbh`Y`Ya Ybhg`cZ`h\Y`XYZ]b]h]cb`cZ`XUhU`Wb`VY` Uj c]XYX`VmhfYUh]b[`U``a Ubi U`XUhU`Ug`XUhU`Zcf`h\Y`di fdcgY`cZ`h\Y`5VM"H\]g]g'h\Y`cb`mgYbg]V`Y`dfUMf]Wb` UXj]Wr"

DYfgcbU XUHJ

Ib cfXxf Zcf XLHUlic VYdYfgcbU XLHLJ h\YXLHUa i ghfYUHYlic U`]j [b[]bXjj [Xi U k\c Wb VY [XYbh]Z]YXZfca h\YXLHUcf Zfca h\YXLHUbXUbmch\Yf]bZcfa Uh|cb k\]W [g]b, cf [g`]_Ymhc Wa Y]bhc, h\YdcggYgglcb cZ h\YXLHUWbhfc``Yf (gYYgYM]cb 1.3 Zcf h\YXYZ]b]h|cb cZXLHUWbhfc``Yf). (H\YhYfa "fYUHYlic...]gg[[b]Z]Wbh GYYh\YgYM]cb cb h\YYZZYMicZh\YDi fUbh'i X] a Ybh cb h\YZc``ck [b[dU Y.)

Ib bcfa U XLimhc-XLimhfUbgUMijcbg k jh\ h\Ydi V j\Wh\Yei Yghjcb cZk\Yh\Yf XLHUUY dYfgcbU XLHUcf bch |g i gi U`mfYgc`j YX Ylgj`m GnghYa g k\cgY Zi bUMjcb |g hc gi ddcfh XYMjgcbg UVci h jbXjj jXi Ug cf UW]Yj Y

² H\Ya cghg[b]ZWbhUfYh\YAWWgghc HYUh\ RYWfXgAWi1990, h\YAWWgghc MYX]Wr RYdcfhgAWi1988, h\YAWWgghc PYfgcbU F] YgAWi1987 UbXh\YHci glb[AWi1988.

h\YfYghcZh\YXLHUdfchWMjcbYXjZjWY]gVi]h A`a cghYjYfnth\]b[YgYdfYgWi]VYX]bh\YAWi]gfYUhXX]bcbYkUncfUbch\YfhcWad`]UbWk]h\RYdf]bVJd`Yg

&" Gca Y'VUg\V\bYV\\gg\h]Yg

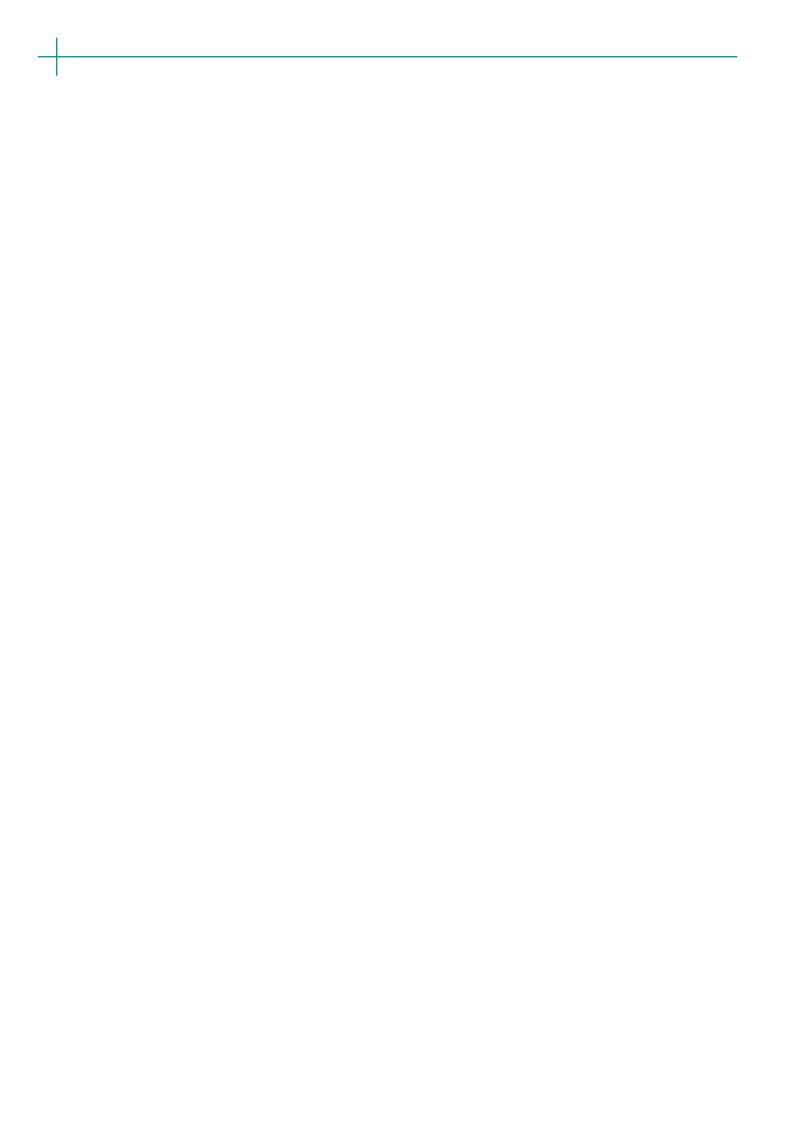
Ib h\gC\Udhnf, kYa Ybhjcb hkc h\Wb]WV f\ei jf\a Ybhg jb h\Y A\Mik\jW a i ghVY h_Yb Wf\y cZ jb cfX\f Zcfdfc\Wgg|b[cZd\fgcbU X\LhUhc VY`\kZi`. H\\m\Lf\Y. YghLV`]g\]b[WbX]h|cbg\Zcfdfc\Wgg|b[UbX\\UbX`]b[bch]Z\Wh]cb.

&'%'7cbX]h]cbgZcf dfcWgp]b[

6cl & G a a UfmcZ WdbX]h]cbg Zcf dfcWgg]b[UbmdYfgcbU XUHJ

PYfgcbU XLHUa UmVYdfcWggYX:

- † k]h\h\YWobgYbhcZh\YXLHUgiVYWM
- † hc YgHV go cf dYfZcfa UWbhfUMalk |h\ h\YXLHUgi V'YMa
- † hc Wa d'mk ||h\ U'Y| U cV|| Uhcb
- † hc dfchYMih\Yj]hU]bhYYggcZh\YXLHUgVYMi
- † Zcf hvyl yfylgyczwiftlib z blylcbgczudi v wybłyfyghbli fy
- † Zef h\Y Y | ha UY | bhy|Wbhy [



&"&"Bch]Z]Wh]cb

H\Y AWI d'UWg Ub cV][Uh]cb cb XLHU Wbhfc``Yfg (k]h\ gca Y Yl Ya dh]cbg\ hc bch|Zmh\Y IbZcfa Uh]cb Cca a]gg|cbYf cZWfhL]b XML]`g cZUbmdfcWgg|b[cZdYfgcbU XLHU H\]g]g h\Y dfcWgg_bck b Vmh\YhMfa bch|Z|Wh]cb.

Mcgh cZ h\Y XYHJ\g bch\Z\YX VmXLHU Wblfc``Yfg UY fYWfXYX Vmh\Y Cca a]gg|cbYf]b U di V]WfY]g\M. RYZMYbW hc h\Y fY]g\M U`ck g UbnabY hc i bXYfg\LbX]b [YbYfU h\fa g h\Y dfcWgg|b[Wff]YX cb VmUbm fY]g\MYXXLHUWblfc``Yf.

CZZJVJU gich\ Yf h\ Ub XUhU dfchYVdJcb cZZJVVfg Xc bch bYYX hc VdbVVfb h\ Ya gY j Yg k]h\ h\ Y bchJZJVVhJcb '

DfUMJW Hdg%

- † A`k Ung [] j Y U Z `` Yl d`UbUh]cb cb Zcfa g (cb dUdYf cf cb-`]bY) cZk \m]bZcfa Uh]cb]g bYYXYX, k \c |g [c]b[hc i gY]h, k \Uhch\Yf gci fWg cZ]bZcfa Uh]cb a UmVY i gYX UbXk \UhWc]WH\YXUHUg V'YWW \Ug
- † Dc h\YgUa Ycb h\YhYYd\cbYh\YZfghha Y]bZcfa Uh|cb |ggci [\hZfca h\YXLHUgi V'YMi Vi hUjc]X i bbYWgglfmfYdYh|h|cb k\Yb noi a U_YZ fh\Yf WbHMiWbWfb]b[cb-[c]b[hfUbgUMjcbg

' "&"8]q\\cg fY cZ UbX U\\\gg hc]b\Zcfa Uh]cb

DjgWegi fY cZ jbZcfa Utjeb jg dfcWggjb[, k\Yt\Yf h\YXjgWegi fY jg hc U a Ya VYf cZgtUZ, hc U h\]fX dUfhm ci hgJXY h\YXLHUWbhfc``Yfgcf[UbjgLtjeb cf hc h\YXLHUgi V'YWi\]a gYZcf\YfgYZ GdYVJU dfej jglebg Udd`m k\Yb h\YXjgWegi fY jg hc h\YXLHUgi V'YWi UbXh\YgY UYXYUhk jh\]b gYWijebg 33, 34 UbX 35.



DfUM/W Hdg'

- † GYhUhja YHVYZcfXYU]b[k]li\ Ugi VYVMUVWggfYei YghUbX_YYdU`c[cZYVW gHJ Y.
- † MU_YX|fYVMiWbH.Wmik |h\ h\YXLHUgi V'YVMihc YgH.V |g\ k\Uh||bZcfa Uh|cb \Ycf g\Yk UbhgUbXhc [Yh Ubm||bZcfa Uh|cb nori bYYXhc dfcWgg|h\YfYei Ygh
- † IZ h\Y fYei Ygh |g UggcV|UhXX k |h\ U Wa d'Ubh, XYU k |h\ |h Ug dUfh cZ h\Y bcfa U Wa d'Ubhg dfcWXi fY.
- † IgYUbmXlgWMhlcbmci \UjYcbWUf[]b[]bh\Y`][\hcZh\Ycb-[c]b[fYUhlcbg\]dk]h\h\YXUHU giVYWM

' "("9bZcfWX gi VYVMiUVWgg

EbZcfWXglVYWMUWYgglgthYdfUMJWcZgcaYVcXJYglbWiXlb[diV]WLihcflhYgcZfYeilflb[Ub]bXlj [XiU lbcaU_YUglVYWMUWYggfYeiYghlchYdc]WCfhcUbchYfdiV]WLihcfllmUbXhcaU_YhhY]bZcfaUhcbdfcjlXYXUjUjWYhchNYa.H\lglgigiglU`mXcbYZcfh\YdifdcgYcZgYY]b[XYhU]`gcfaU_]b[lbZdfYbWgUVcihh\Y]bXlj [XiUgW]albU\]glcfm

H\lgdfUMJW\Ug`cb[VYYb fY] UXXXVmh\YlbZcfa Uh]cb Cca a lgg]cbYf, h\Ydc`]WUbXch\Yfg UgUb UM gY cZh\Y |bXJj |Xi Ufg gHLh lcfmf][\lg Ih k]` VYWa Y i b`Uk Zi` cbW ch\Yf UffUb[Ya Ybhg Zcf X]gWcg fY cZ WJa |bU fYWfXgUYdi h|b d`UW i bXYf h\YPc`]WAW11997.

Di V]WU h\cf]h]Ygk\]W:WffYbhma U_Y:i gY:cZ:YbZcfWX:g VYWiUWWggg\ci `X:HU_Y:]a a YX]UhY:ghYdg hc: ghcd:Xc]b['ge"=hi]gi bUWWdhUvY:Zcf"Udi V]WU h\cf]hmhe Wtbh]bi Y:k]h\ UdfUMi]W:k\]W:]h]g_bckb:k]`` qccb'WWta Y:i b`Uk Zi `"

' '') "8UHJ UVci hch\Yf]bX]j]Xi Ug

Gca Yhja Yg []j]b[UWYgghc dYfgcbU XLHUhc h\YXLHUg VYWaWb bchVYXcbYk]h\ci hfYj YU]b[dYfgcbU XLHUWci hch\Yf]bXjj]Xi Ug H\]fXdUfmXLHUg\ci `Xbchbcfa U`mVYa UXY U J`WYk]l\ci hh\YWbgYbh cZh\Y]bXjj [Xi Ug WbWfbYX, Uh\ci [\ h\YAWaXcYgbcha U_Yh\]gUb Uygc`i hYfYei]fYa Ybh

IZnai \UjYh\YWbgYbhcZh\cgYch\Yf]bXjj]XiUgh\Ybh\Y]bZcfaUh]cbg\ciXVYfYjYUYXIZnai \UjYbchh\Ybnai g\ciXgYY_h\YfWbgYbh]Z]h]gdfUMjWWYhc`g _fM

91 Ua d'Y'%&^ GYj Yf]b['h\]fX'dUfhm]bZcfa Uh]cb

Ab Ya Uj`a YggU Y, YXJhYX VYZcfY fYYUgY hc h\YXUHUgi V'YWki Mf Ca Jh\:

H: ^^^^ Ffca: ^^^^ G VYWM Mf Ca Jh



("K \Uhi]Z']h[cYgkfcb[3

Nc a UHM \ck [ccXh\y]bhMbU Wa d`]UbW a YWUb]ga g h\]b[gk]`` gca Yh]a Yg[ckfcb[. DUHUgi VYMigk]`` Wei]Who gdchWa d`]UbWdfcVYa gUbXho Wa d`Ub Uvci hdccfei U]lmXUHUcf`U gYWf]lmcfZUj`i fYho []j Ygi VYMiUWAgg

Ccad`Ublgg\ci`XWXYUhk]h\ei]\Wmh\fci[\]bh\fbU Wad`Ublgag H\YcV`YMijYg\ci`XWhcaUbltJbh\YfYUhlcbg\]dk]h\YXUHUg V`YMijhcfy`jYh\YdUfh\W`Uf [gg]Yg]beiYgh]cb, UbXhc]adfcjYg\UbXUfXgcZWad`]UbWcjYfU`.

 $\label{thmgca} IbYj \ [c hc h)Y \ [bZcfa Uh]cb Cca a \ [gg]cbYf, k\c k]`` a \ UY \ UggYgga YbhcZ k\Yh\Yf h\YdfcWgg]b[\ WbWfbYX]g]b \ Wa d`]UbWk \ [h\ h\YAWhcf bch H\YCca a \ [gg]cbYf \ XcYg\Uj YZcfa U dck YfgcZYbZcfWa Ybh, Vi h\Yi gYgh\YgY fUYm$

IZ h\YXWad`Lljbh Wo'llxWrfbg\U gdb[`Y cWW/ffYbW/]ggldbollb-XXVad`]LbW/k\]W]g di h f UJW g g Y W W

) "Hubghcbu dfcj gcbg

Pf]cf hc 1 MUW 2000, k\Yb h\YDUHUPfchYMqlcb AWn 1998 k Ug Vfci [\h]bhc YZZYMn dfcWgg]b[cZdYfgcbU XUHU k Ug fY[i `UhXX i bXYf h\Y DUHUPfchYMqlcb AWn 1984. H\Y 1998 AWn U`ck YX Zcf U hfUbg]h|cbU dYf]cX Xi f]b[k\]W, YZZYMqj Ym, h\Y a cfY `]a]hYX dfcj]glcbg cZh\Y 1984 AWn fYa UbYX]b ZcfW Zcf dfcWgg]b[k\]W k Ug UfYUMmi bXYf k UmVYZcfY 24 OWn VYf 1998.

H\UhlfUbglhjcbU dYf]cXWa Yhc Ub YbXcb 23 OMtcVYf 2001, gc h\Uh]b a cghfYgdYMg h\Y 1998 AWtUdd`]Yg]b Zi ``hc U`dfcWgg]b[cZdYfgcbU XLHJ k\Yh\Yf]b U hca UYX cf a Ubi U Zcfa . H\YfY fYa Ubg`]a]hXX V X V XflfUbglhcbUfY]Yg` YfHJb` Ubi U V V bW cZh $b.H\QM$ Y]Y g h\Ydfcj]glcbgcZ cg f]bv bl Yg, Ub lbv b cgV Wig bQ YfUg™fYUb XYgri VMce

*": i fh\Yf']bZcfa Uh]cb'UbX'UXj]W

*'%'GWdY'cZ'h\Y'; i]XY

H. YfYUYUbi a Wf cZdfcj [glcbg]b h.Y Y[[gUf]cb k \ [W k Y Xc bchXYU k]h.]b h. [gGi]XY, cb h.Y Wggh. Uhh. Ym UYbch` _ Ymfc W fYY J. Uhh. b h.Y XI. mhc-XI. mk.cf_ cZh.Y hmd]WJ di V [WcZZ]WU. H.Y a cgh. a dcfl. Uhc.Zh. YgYUY.

- † HUbgMfgcZdMfgcbU XLHUci hgXYh\YEi fcdYUb EWbca JWAfYU
- † DUHUWoblfc "Yfgci hglXYh\YI K
- † El Ya dh]cbg (ch\ Yf h\ Ub Zfca gi V'Y gi V^

ISBN: 1 903903 38 6