DYdUfhaYbhcZP\mg]WU`EXiWUh]cb, KY``bYgg, UbX SdcfhCc``Y[YcZEXiWUh]cb UbX HiaUb ShiX]Yg

FUW i hm

@Jbb A. ClifUbU_ (1-, 0). I blj YfglmDfcZYggcf cZD\nglW 9Xi Wh]cb UbX8 YdUfna Ybh7\Uf. 6.G, I bljcb I blj Yfglmd A.G, I blj YfglmcZ? Ybhi Wm 8.5., A JXXY HybbYggYY ChUhY I blj Yfglm 5 XXJh]cbU ghi Xm I blhX ChUh'g Cdcfhg 5 WXYa m

8 Uj JX6`UWgleW (1-+3). DfcZ/ggcf cZD\nglW 9Xi Whlcb UbX8 JfYMcf cZ5 h\`YhlWg 6.G, I b]cb I b]j Yfglmc/A.9X, I b]j YfglmcZCci h\Yfb A Jgglggldd].

A Uf_ 7Ua dVY` (1--*). =bgffi Whicf cZD\ngdWt 9Xi Which. 6.G, 8Uj |X@|dgWta VI b|j Yfglma/A.9X, I b|cb I b|j Yfglma/A.9X, I b|j Yfglma/A.9X, I b|j Yfglma/A.9X, I b|j Yfglma/

CLFU 8 Lj Ybdcfh(200)). =bgfi Wicf cZ5 l\ YljWFUb]b[. 6.G, I b]cb I b]j Yfglm A .9X, 5 i Vi fb I b]j Yfglm

; $\label{thmcbgcb} \mbox{ (1-- (). 5 ggc VJUYDfc Z/ggcf c ZD\ng/W) 9Xi Whlcb. 6.G, I blcb I blj Yfglma/A .G, I blj YfglmcZA Ya d\g/8.5., A]XXYHMbbYggYYGUYI blj Yfglm$

7`]ZZDUk`Ym(2001).5 gg]gfUbhDfcZ/ggcfcZ5 h\`Yh]WfUb]b[UbXDfc[fUa 8]fYMfcf.6.G, Gci h\Yfb=`]bc]gIb]j YfglmdA.G, Ib]j YfglmcZQci]gUbUAcbfcY5XX]h]cbUghiXmIb]j YfglmcZAYad\]g

>i `]YDck Y` (1--)). 5 gg]glUbhDfcZ/ggcf cZCdcfhA UbU, Ya Ybh 6.G UbX A .9X, I b]cb I b]j Yfg]hm/5 XX]h]cbU gli Xm, I b]j Yfg]hmcZA Ya d\]g

5bXmFig\]b[(1-,,). 5gg]gH.bhDfcZYggcfcZD\mg\W 9XiWh]cbUbX8]fYMcfcZ5h\`Yh]WUW]h]YgUbX:]YXg 6.G, I b]cbI b]j Yfg]mcA.G, I b]j Yfg]mcZA Ya d\]g 5XX[h]cbU gii XmI b]hYXCH.hYgCdcfhg5WXYa m

FUd\ H fbYf (1--(). =bg/fi Whicf cZD\ng/W 9Xi Wh]cb. 6.G, 8Uj |X @]dg/Wa V I b|j Yfg/hm/A.G, HYbbYggYY CHLYY I b|j Yfg/hm

144 M]gg]cb ShUhY a Ybh

H\Y8 YdUfha YbhcZD\ng\W\9Xi Wh\cb, K Y`b\Ygg UbX Cdcfh\cd\Yghc]bgh]``]b]lggli XYbha UcfgU`]ZYha YXYgfY hc\Yd ch\Yfg[Ub]b hchU\YUh\ h\fci [\h\Ya YX]i a cZ\i a Ub a cj Ya Ybh 7i ff]W`i a]gXYgf[bYXUW\fX]b[`m : cf h\YYbh]fYghi XYbhVcXmci f hLg_]ghc]bhfcXi Wh\Ya hc_bck `YX[YUbXg_]``g]b cfXYf hc XYj Ycd U\YUh\m`]ZYgmYZcf cdha i a `]j]b[.

Ciff]Wi`ia

H\\^Y8 YdUfha YbhVY]Yj Ygd\ngjWi YXi Wilcb lc VYh\UhdUfhcZh\YhcHU YXi WilcbU dfc[fUa k\]WUXXg]lgi b]ei Y Wbhf]Vi h|cb h\fci [\h\Ya YX]i a cZUMij]lmcf a cj Ya Ybh H\Y8 YdUfha YbhYa d\UgjnYgh\YUWi]g]h|cb cZa chcf g_]``gUgcZj Ui YZcf`]ZYha Yd\ngjWi fYMYUh|cb UMij]h|Yg h\YXYj Ycda YbhcZgcVjU`mXYg]fUvY\Uy]lgUbXUh]hi XYg UbX_bck `YX] Y, k\]W Wbhf[Vi hYhc h\Ycj YfU` U|a gcZYXi Wh|cb.

5]a gcZh\Y8YdUha YbhUY. hc XYj Ycd d\ng\W g_]``gZcf `]ZYha Yi gY/hc XYj Ycd g\YYbh]ÚW_bck `YX[YUbXUhh]h XYgZcf cdha i a XYj Ycda YbhcZ\YUhh h\fci [\ÚbYgg/hc Wih]j UhYgc\WU`mXYgfUVYWUFUMMf]gh]\Wy/hc cZXfk\c`Ygca YfYWMUhcb/hc XYj Ycd]XYUg/hc dfYdUYhYUWYf WUWYg d\ng\W YXi Whcfg Uh `Yh]\WfUbYfg UbXgdcfh a UbU YfgZcf a Ubm\WfYff WUbbYg/UbXhc XYj Ycd h\YhclU dYfgcb h\fci [\d\ng\W UMj]hm

dfc[fUa]gHi[\hk]h\ Ub Yl hYbgjj YWJb]W/ fYei]fYa Ybh I dcb[fUXi Ul]cb k]h\ h\ Y6.G UbXh\ Y5 h\ `Yl]WHFUJb]b[a U'cf, h\ Yghi XYbh]gY][]VYhcghZcf h\ YB 5H56C7, Uh\ `Yl]WHFUJb]b[WHJUWH]cb Yl Ua]bUl]cb.

? bck]b[YXi Wh]cb]gUWbh]bi ci gdfcWgg h\Ydfc[fUa g\ci `X WMUhY UbX a U]bhU]b Ub Ybj]fcba Ybhh\fci [\a cj Ya YbhYl dYf]YbWgk \YfYj Ui YgWUf]ÚWh]cb UbX Yl dYf]Ybh]U `YUfb]b[cWwf/`YUXYfg\]d XYj Ycdg/UgYfj]b[Uh]hi XY, `]ZYgmiY, UbX Wa a]ha YbhUfYZcghYfYX/UbX dfcVYa -gc j]b[cddcfhi b]h]YgYl]gh

H\Y8YdUTha YbhcZXfga U'cfg]b D\ng\W 9Xi WIdcb `YUX]b[hc HYbbYggYY HYUWYf @]Wbg fY, 5h `YI]WHFU]b]b[, 9l YfV]gY GV]YbW/K Y`bYgg i bXYf Gdcfhg A YX]V]bY/UbX GdcfhA Uf_YI]b[UbX Gdcfh7ca a i b]WI]cb i bXYf Gdcfh A UbU Ya Ybh H\YD\ng\W 9Xi WI]cb A U'cf fYei]fYgh YWa d`YI]cb cZh YDfcZYgg]cbU 9Xi WI]cb A]bcf UgbchXX VYck. 5h `YI]WHFU]b]b[, Gdcfhg A YX]V]bY UbX GdcfhA UbU Ya YbhUfY Ya dhZfca h\YfYei]fYa YbhZcf Ua]bcf.

H\Y8 YdUfha Ybh, k]h\ h\Y8 YdUfha YbhcZ7\f]gf]Ub Ghi X]Yg Ugc cZZYfg Ua U'cf]b GdcfhA UbU Ya Ybhk]h\ UGdcfh A]b]gfm9a d\Ugg

- = A Ucf]b D\ng|W 9Xi Wh]cb UbX< YUh\ k]h\ HMWYf@|Whbgi fY]b D9 (; fUXYg?-12)
 - 5. A Ucf fYei]fYa Ybhgí 33\ci fg
 - 1. GYYMicbYcZ D9K G103, 10), cf 203.
 - 2 GYYMAcbYcZD9KG10(, 110, 111, 11-.
 - 3 D9K G12Q 13Q 201, 222, 31*, 32(, 3)Q (1Q (1(, (1), (1*, (1-.
 - 6. DfcZygglcbU 9Xi Whlcb. 98 I 1) 0, 2) 0, 32*, (21, (3) /DGM213, 31, /Q9 22).
 - 7. 7ca d`Yhlcb cZUdd`]WWYdcfhlcbgcZh\YDfU]g=gYf]Yg

*117-27. ? UUY = (1) : , GUbX? UUY = (1) G

*119 5fWYfm(1) K

120 HMA Gdcflg(1):

: i bXla YblU g_]``g fi `Yg l\YVb]ei Yg UbXglfUM[mcZhVla gdcflg

*121.; c'Z(1):

H\YZI bXUa YbhUgcZ[c`Z VUglVvgfc_Yg gffUh[]Yg fi `Yg UbX Yh]ei YhhYUghUi [\hZcf g_]``XYj Y`cda YbhUbX\YUh\ j Ui Yg =bgfi Vh]cb df]a Uf]`mVmXYa cbgffUh]cb.

*122 KY| \hHUb|b| (1) G

6Ug\WcZk Y|[\hlf\Ub]b[\LgUa Yh\cXcZ[Ub]b[\gfYb[h\. dfcdYf \h\Wb]ei Yg g\Z\m\V\bY\Ug\UXf]g_g Hi [\h\m XYa cbg\fU\]cb UbX d\Uf\U\d\U]cb.

*125 GMVU8]j]b[(1):, G

=blfcXi Wajcb loc gWVUXjj]b[UbXgbcf_Y]b[]bWi X]b[gUZ/lm;h]wWb]ei Y, UbXYei]da Ybhi gYUbXWafY. GWVUWff]-ÚWl]cb]gdcgg[VYi dcb Wa d`Yl]cb.

*126 5Xj UbWXHMbb|g(1):, G

 $5\,b$ LYg LbWX `Yg Y Wi fgYXYg[bYX lr lhVW LYg LbWX g_] ``gUbX h\Wb]ei YgZcf lh\bb]g Ugl\Li [\ hl\ fci [\ WbX]l\]cb-]b[, Xf] ``gUbX a UlW d`Um

130 =bX|j |Xi U-8i U Gdcflg(1) G

: i bXLa YbHJ g_]``g fi `Yg hYWb]ei YgLbXgfUh[mcZ]bX[j]Xi U-Xi U UM[j]h]Yghc]bWi XYk U`mVU`, [c`Z,\cfgYg\cYg hVYhhbb]g [ma bUgh]Wgghi bhg\LbXhi a V`]b[,\LbXk fYghi]b[.

201. =blfcXi Wjcb lc D\ng W 9Xi Whjcb UbXGdcfh(3) G

 $H(Y) = \frac{1}{2} (Y) + \frac{1}{2$

*203 @|ZY| i UXHUb|b| (1) G

 $5 \ Wri \ fgYhc \ dfcj \ [XYh.Ygffcb[\ gk \]a \ a \ Yf \ k \]h \ h.Y_bck \ `YX[\ YUbXg_]``gXYg[\ bYXhc \ gUj \ Y\setminus]g/\setminus Yf \ ck \ b \ `]ZYcf \ h.Y`]ZYcZUbch \ Yf \]b \ h.Y.Yj \ YbhcZYa \ Yf[\ YbWhn \]ZYcf \ h.Y`]ZYcZUbch \ Yf \ [YbWhn \]ZYcf \ h.Y`]ZYcYn \ Yf[\ YbWhn \]ZYcf \ h.Y`]ZYcYn \ Yf[\ YbWhn \]ZYcf \ h.Y`]ZYcYn \ Yf[\ YbWhn \]ZYcYn \ Yf[\ Y$

205 GdcfhA YXJU(3):

FYMdfcW/WYXh7CA 20).

218 5h`YhWb'i f|Yg(3):, K

H\YcfmLbXdfUMjW]b lfYUljb[Wa a cb]b1 f]Yg]b D9 UbXU\\`YljWgk]l\\ Ulmblqcb lc a UggU Y/VUbXU]b[/lfYUna Ybh cZgdfU]bg Vfi]gYg UbXk ci bXg/X]Yh/UbXWbX]lqcb]b[cZU\\`Ylng HU]b]b[Fcca `UVYl dYf]YbW.

222: |fgh5|X(3):, K, G, Gi

H\YbUi fYcZ|b'i fmUbX|a a YX|UYWfYfYei |fYX VUbXU |b[UbXWfX|c-di `a cbUfmfYgi gV|fU|cbk |`` VYgii X|YXUg k Y` UgU` [YbYfU:]fgh5]X dfUM|Wg Cli XYblgWa d`Yl|b[\h\YWi fgYk]`` YUb \h\YB U|cbU CUZ\m7ci bV|\; fYYb 7fcgg7Yfl]UWhY.

230 Ci l**X**ccf 9Xi Wd;cb UbX< i bl\(fGUZ\)m(3) Cb 8 Ya UbX

Ci lXccf UMj]l]Yg Wa d]b[, \i bl]b[, VUWdUW]b[, ÚYXgLZMmgi fj]j U, k]'X']ZYa UbU Ya Ybh WbgYfj Ul]cb, g_Yh g\ccl]b[, Wa dUggfYLX]b[, UfWYfmUbXf]ÛYfUb[Y, GlfYggYgci lXccf Yh\]WgUbXfYgdcbgV]`]lmH\YHMbbYggYY< i blYf GLZMmdfc[fUa]g]bWi XYX.

231. 7Ua d]b[UbXCi bXccf FYMYU]cb (3) G

5 Wri fgYdfYdUf]b[głi XYblghc `YUX]b ci hXccf fYMYUl]cb UMlj]ll]Yg/Wa dWUng_]``g gUZhmUbXhYWb]ei Ygk]`` VY HU [\hZcf h\YVY] [bb]b[Wa dYf Ugk Y`.

240 = blfcXi Wijcb hc GdcflgA YXJVJbY(3) G

9ad\Uglgcbl\Y[`cVU`UddfcUW lc gdcflgaYX]VJbYUbXWbhYadcfUfmlcd]Wyk]h\UhYbhJcblc lc l\YVUglgcZgdcflgaYX]VJbY,d\nglc`c[mcZUMij]lm

14

250 =blfcXi Wijcb loc FYWWUljcb (3) 5 gBYYXYX

: ci bXLHcbg]b fYMMLHcb,]blfcXi VJb[gli XYblglc]lgbUi fYUbXd\]`cgcd\mlc]bWi XYUgli XmcZGci h\Yfb 6UdHgh`]lhfUi fYZca h\Y7\i fW FYMMLHcb 8 YdUfha YbhUbX[YbYfU dfc[fUa gcZfYMMLHcb.

251. FYMYUJcbU GdcflgUbX; Ua Yg(3):

435. =bh/fb (1-6):, K, G, Gi

=bhhfbg\]d cddcfhi b]h]Ygi bXYf Uddfcdf]UhYgi dYfj]g|cbZcf UgdYN)ÚYXh]a Y, k]h\ gdYN)ÚWfYei]fYa YbhgXYhMfa]bYX Vmh\YXYdUfha Ybhgi dYfj]g|cf(g). 3) \ci fg]bhYfbg\]d Yl dYf]YbW(a]b]a i a cZ1(0\ci fg) fYei]fYXZcf YUW\ci f cZ WYX]h DfYfYei]g|hY. >i b]cf glUbX]b[UbXWbgYbhcZh\YXYdUfha Ybh

461. 91 YfVjgYHYgfjb[UbXDfYgWiJdlfjcb (3) G

DfYfYei]g|hY. D9K G(1), (1*.

5 gli XmcZh YWblfc``YXi gYcZM YfVJgYhc Yj Ui UYh YÚlbYgg`Yj Y, YgdYMU`mh YWfX]cj UgW`U Z bWljcb cZdYfgcbg gdYMÚW mh cgY]b a [XX`YUbX c`XYf U Y [fci dg 9a d\Uglgk]`` VYd`UMX cb h YgMJbh]ÚWUglgcZfYWa a YbX]b[Yl YfVJgY dfc[fUa g Ug UdfYj Ybh]cb cZ\YUfhXlgYUgY. 7cbWdlg cZYl YfVJgY hYgh]b[UbX dfYgWl]dh]cb k]`` Zc``ck h Y [i]XY`]bYgcZh Y5 a Yf]Wb 7c``Y[YcZCdcflgA YX]VJbY.

* D\ng|W 5 Wij |lm7ci fgYgUdd`]WWYhch\Y; YbYfU 7cfY7i ff]Wia

Ah\`Yh]W TfU]b]b[MU^cf UbX Pfc[fUa

150

i]g|hY Wi fgYk cf_ Zcf Yj Ui Ul;cb UbX [YbYfU a YX]Wi UggYgga Ybh 7`]b]Wi YXi Wil;cb fYei]fYgUb Yj Ui Ul;cb cZh\Y gh XYbh|bhYfbg\]d. H\YgYb]cf dfUM]Wa fYei]fYgh\Ygh XYbh|c dYfZcfa Uh`Yh]WfU]b]b[Xi h|Ygk]h\]b Ugi dYfj]gYX hYUa glcfhUgg][ba Ybh

5j U'WY|b YWW XYdUfha YbHJ dfYÚl.

179-279-379-479 91 htfbU 8 ca Ygl]WChi XmDfc[fUa g(1-3) 5 gB YYXYX

5 "Wi fgYgUbXh\Yff Udd`]Wh]cbga i ghVYXYÚbYXUbXUddfcj YXdf]cf hc fY[]gMf]b[.

180 280 380 480 Gli Xm5 VfcUXDfc[fUa g(1-4) 5 gB YYXYX

5 "Wi fgYgUbXh\Yff Udd`]Wh]cb a i ghVYXYÚbYXUbXUddfcj YXdf]cf lc lfUj Y.

19567. GdYWU Gli X|Yg(1-4) Cb 8 Ya UbX

29567. GdYWU Gli X|Yg(1-4) Cb 8 Ya UbX

@ck Yf-`Yj Y [fci d ghi X]Ygk \]W Xc bchUddYUf]b h\ YfY[i `Uf XYdUfha YbhU cZZYf]b[g

395-67. GdYVJU Gli XJYg(1-3) Cb 8 Ya UbX

I ddYf-`Yj Y [fci d ghi X]Ygk \]W Xc bchUdYU]b h\YfY[i `Uf XYdUfha YbHU cZXf]b[g

49567. =bXYdYbXYbhGli Xm(1-4) Cb 8 Ya UbX

=bX]j]Xi U fYgYUfW i bXYf h\Y[i]XLbWcZUZW\`hma Ya VYf(g).

4989 GYa |bUf (1-3) Cb 8 Ya UbX

Hc VYi gYXUh YXlgWMlcb cZh YXYdUfha Ybh