Fbgbkl_jkl\h gZmdb b \ukr_]h h[jZah\Zgby Jhkkbckdh
N_^_jZevgh_]hkm^Zjkl_ggh_ [x^`_lgh_ h[jZah\Zl_evg
\ukr_]h h[jZah\Zgby
©Kfhe_gkdbc]hkm^Zjkl_gguc mgb_jkbl_lª

DZn_^jZ f_g_^`f_glZ

©Ml_jª
ljhj_dlhj ih mq_[gh
f_lh^bq_kjZ[hc_
BBBBBBBBBBB X : Mklb
© ª bxgy]

24

GZijZ\e_gb_ ih^]hlh\db F_g_^`f_gl
GZijZ\e_gghklv ijhjZaeh\Zl_evghc ijh]hZbfu h^kl_gguc
f_g_^`f_gl
NhjfZ h[mqaZgy
Dmjk5 ±
K_f_k±j
<k_]h aZq_lguc±4,_ qZgkh1±4±
E_dpb10 q±Zkh\
IjZdlbq_kdb_ aZgZkhy\ ±
KZfhklhyl_evgZy123Zq[Zkh\±
NhjfZ hlq_lghklb 9wkd_afZ_fk_lg ±

Ijh]jZffZ khklZ\e_gZ gZ hkgh_ N=HK <H ih gZijZ\e_gbx ih^]
F_g_^`f_gl

Ijh]jZffm jZajZ[hlZe
dZg^b^Zl wdhghfbq_kdbo gZmdL <^hp_gl >Z\u^h\Z

H^h[j_gZ gZ aZk_^Zgbb dZn_^ju f_g_^`f_glZ
©14ª bxg3022] ijhlhdhe ‹

Kfhe_gkd
2022

Понятие инновации, инновационного процесса. Основные компоненты инновационного процесса. Динамика инноваций. Сущность и роль инновационного менеджмента. Взаимосвязь инновационного менеджмента с другими науками. Основные виды инновационной деятельности, инновационная инфраструктура. Инновационный проект, жизненный цикл. Субъекты инновационной деятельности.

Основные модели и модели исследования динамики инноваций. Модель продуктового цикла, модель обратного

продуктового цикла, которые представляют собой две основные разновидности модели лага.

Ihgylb_ bggh\Zpbhgghc bgnjZkljmdlmju __ jhev aZ^
H[sZy oZjZdl_jbklbdZ bgdm[Zlhjh\ l_oghiZbjgdmh\jfZlp_bohgghe
l_ogheh]bq_kdbo kbkl_f b\ bhkkdlbjhmZ\ZfZb

=hkm^Zjkl_ggh_ j_]mebjh\Zgb_ bggh\Zpbhgghc ^_yl_ev
Hkh[_gghklb hj]ZgbaZpbb GBHDJ \ hj]ZgbaZpbyo Hkh
j_]mebjh\Zgby bggh\Zpbhgghc ^_yl_evhgkmksb_klHek_h[bygghkalbg
bggh\Zpbhgghc ^_yl_evghklb Hkh[_gghklb nmgdpbhgbjh\
_gqmjguo nhg^h\

IhdZaZl_eb bggh\Zpbhgghc ^_yl_e.vgBhkgbh\Zhpjh]ZgbaZpbb
hj]ZgaZp.bbBggh\Zpbhgguc ihl_gpbZe. BjgZbhZapZhbgguc . deb
Bggh\ZpbhggZy ihabpby hj]ZgbaZpbb

Hkh[_gghklb ijhp_kkZ ijbgylby j_r_gbc hlghkbob_fZev
kljZl_]bq_kdh]h f_g_^`f_glZlhgyglh\Zpbgcgh\ZpbhggZy kljZl_]b
kljZl_]bb DeZkkbnbdZpby bggh\Zpbhgguo kljZl_]bc \ aZ\bkb
<b^u kljZl_]bc \ aZ\bkbfhklb hl lbiZ kljZl_]bq_kdh]h dhgdm
ih_^_gby nDbefZkkbnbdZpby bggh\jZpb]hgcguoaZk\bkbfhklb hl ijh\
beb \g_^j_gby GZHDpJZ b^_glbnbdZpbb ij_^ijbylbc ih lbim
dhgdmj_glgh]h bggh\Zpbhggh]h ih_^_gby

7.

Hkh[_hgkglb ijhp_^mju hp_gdb wnn_dlb\ghklb bggh\Zpbh
hkgh\gu_ ijbgpbiu klZ^bkohkZlZZgeub_aZwe_f_glu dhfie_dkgh]h
ZgZebam wnn_dlb\ghklb bggh\Zpbhgghc \e^b_ygb_evgZklhbjZ \j_f
bg_klbpbhggu_. Fh_llhd^bu gpdb nbgZ-gwkdh\ghfbq_kdhc wnn_dlb
bggh\Zpbhgguo.ihMhq_dlh\Zdlhgjbgbgkh\Zpbhgghc ^_yl_evghklb

-

Bggh\Zpb-hggghe h]bq_kdb_ f_g_^`f_gl _]hv ihbgyflbklh jh
bggh\Zpbhgghf f_g_^Hkgdh\gu_ aZ^Zqb bglghovZhpebh]bggh_kdh
f_g_^`f_ghlZgh\gu_ h[eZklb mijhZp\ekkghfyhkms_kl\e_gby ijhba\h
bggh\Zpbc

Jhev GBHDJ \ f_g_^`f_gl_ nbjfu dZd kom[tZdliZhpjukgkdZ
jZaZ[hldb b \u\h^Z lh\ZjZHgjaZhjujghmgghc kblmZpbb b]_g_jZp
NbevljZpby lhjh_cjdZ dhgp_ipbb b wdhghfbq_akjZlbZ ZghZeibaZgb
gh\h]h ijh^mdtZucjfZjd_lbg]

Kh^_j`Zgb_ b ijhp_^mjZ hp_gdb b hl[hjZ Hkgh\gu_ djbl_
\g_^j_gbb bggh\Zpbc Hj]ZgbaZpby hp_gdb wnn_dlb\ghklb b

‹ i i	JZa^_eufbl	<k_] qZkh	Nhjfu aZgylbc		
			e_dpl	ijZdlbq_k aZgylby	kZfhklhyl gZy jZ[h
1.	L_fZ Bggh\Zpbl ^_yl_evghklv __ kh^_j`Zgb_ b kljm	**14**	**2**	**-**	**12**
2.	L_fZ Lbiheh]by bggh\Zpbc	**12**	**-**	**-**	**12**
3.	L_fZ Bggh\Zpbl bgnjZkmjdlmjZ	**12**	**-**	**-**	**12**
4.	L_fZ J_]mebjh\Zgl bggh\Zpbhgghc ^_yl_evghklb hkg \b^u b nhjfu	**12**	**-**	**-**	**12**
5.	L_fZ Bggh\Zpbhgg p_eb b bggh\Zpbh ihl_gpbZe hj]Zgba	**12**	**-**	**-**	**12**
6.	L_fZ KljZl_]by GB <b^u bggh\Zpbhgg kljZl_]bc	**16**	**2**	**2**	**12**
7.	L_fZ :gZeba wnn_dlb\ghklb bggh\Zpbhgghc ^_yl_evghklb dZc mijZ\e_gby bggh\	**14**	**2**	**-**	**12**
8.	L_fZ Hkgh\gu_ wlZiu bggh\Z-pbhg l_ogheh]bq_kdh]h f_g_^`f_glZ hj]Zg	**16**	**2**	**2**	**12**
9.	L_fZ FZjd_lbg]h\u ih^oh^ d jZajZ[hlc \g_^j_gbZ jughd bggh\Zpbhggh]h i	**12**	**-**	**-**	**12**
10.	L_fZ Hl[hj b h wnn_dlb\ghklb bggh\Zpbhgguo ij	**15**	**2**	**2**	**11**
	WdaZf_g	**9**			**9**
		144	**10**	**6**	**128**

Iz

1. Понятие инновации, инновационного процесса
2. Сущность и роль инновационного менеджмента
3. Основные виды инновационной деятельности, ее структура
4. >hdmf_glZevgh_ hnhjfe_gb_ bggh\Zpbhggh]h ijh_dlZ

3. lhgylb_ bggh\Zpbhgg Zy kljZl_]by [Zah\u_ kljZl_]bb
4. DeZkkbnbdZpby bggh\Zpbhgguo kljZl_]bc \ aZ\bkbfhklb hl
5. <b^u kljZl_]b aZ\bkbfhklb hl lbiZ kljZl_]bq_kdh]h bggh\Zpbhggh]h ih_^_gby nbjf
6. DeZkkbnbdZpby bggh\Zpbhgguo kljZl_]bc \ aZ\bkbfhklb hl GBHDJ
7. FZljbpZ b^_glbnbdZpbb ij_^ijbylbc ih lbim kljZl_]bq_ bggh\Zpbhggh]h ih_^_gby

kihkuey dhglhey

1. DZdh\Z ijhp_^mjZ ijbgylby j_r_gbc h[bggh\Zpbyo"
2. Qlh \dexqZ_l ko_fZ kljZl_]bq_kdh]h f_g_^`f_glZ bggh\Zp
3. DZdb_ bggh\Zpbhggu_ kljZl_]bb kms_kl\mxl"
4. DZd hij_^_ey_lky lbi kljZl_]bq_kdh]h dhgdmj_glgby h bg hj]ZgbaZpbb"

-

FZd_l [b-ag_kZ bggh\Zpbhggh]h i

:

;BAG?lkE:G

gZ bggh\Zpbhgguc ijh_dl

_____

gZa\Zgb_

_____

gZbf_gh\Zgb_ hj]ZgbaZpbb \dexqZy nhjfm kh[kl_

_____

_____

bf_gZ Z^j_kZ dhglZdlgu_ l_e_nhgu hkg mqj_^bl_e_c k m dZiblZe_

_____

_____

nZfbeby bfy hlq_kl\h jmdh\h^bl_ey dhglZdlguc l Kf_lgZy klhbfhklv ijh_dlZBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB Bklhqgbdb nbjZgkyjBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB

_____

NhjfZ b kmffZ aZijZrb\Z_fhc]hkm^Zjkl_gghc ih^^_j`dbBBBB

Kjhd j_ZebaZpbb ijh_dlZ BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
Kjhd hdmiZ_fhklb ijh_dlZ BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB

i_j_qbkeyxlky \k_ jZ-ieZ_gZ [kbmdZkaZgb_ ghf_jh\ k
dhlhjuoihZekZ]Z_lky mdZaZggZy bgnhjfZpby

- djZldh_ baeh`_gb_ hkgh\guo oZjZdl_jbklbd i
]hlh\h]h [biaegZ_gkZ jZkdju\Zxs__ _]h p_eb b ^hdZaZl_evkl\Z \
kljZgbpu
- p_eb ijh_dlZ b _]h ihl_gpbZevgZy wnn_dlb\ghkl
- djZdb_ k_^_gby h[hj]ZgbaZpbb yo ijbgbfZxsbo mqZklb
- hibkZgb_ ihlj_[ghklb \ bg_klbpbyo \dexqZy bklhqgb
gZijZ\e_gby bkihevah\Zgby
- hkgh\gu_ nbgZgkh\u_ ihdZaZ-ieb_gh^]ZggZaZpbihke]h^gZb_
- ieZgbjm_fu_ h[t_fu ijhba\h^kl\Z ih aZ_jr_gbx j_ZebaZpl
- h[t_f kh[kl_gguo \eh`_gbc b nhjfZ mqZklby aZy\bl_ey
^_g_`gu_ kj_^kl\Z h[t_dlu bgl_ee_dlmZevghc kh[kl_gghklb
- ihl_gpbZevgZy [x^`_lbZgyhwlvnijdl_dlZ
- khpbZevgZy wnn_dlb\ghklv ijh_dlZ dhebq_kl\h kha^Zg
wnn_dl

.

Kmlv ijh_dlZ hibkZgb_ bggh\Zpbhggh]h ijh^mdlZ k
nhlh]jZnbc \b^_hfZl_jbZeh\ b l ^
GZagZiqjh^gmdlZ hlebqb_ _]h hl bf_xsboky ZgZeh]h\
H[hkgh\Zgb_ gh\bagu l_ogbq_kdbo b hj]ZgbaZpbhggu
dhibc ^hdmf_glh\ kijZ\dZ ih^l_j`^ZxsZy ijZ\h kh[kl_gg
j_r_gby h[t_dl ijhfure_gghc kh[kl_gghklbZ <hsafh`gu_ ijZ\
bgl_ee_dlmZevghc kh[kl_gghklb <hafh`gu_ ^baZcg miZdh\

KblmZpby gZ \gmlj_gg_f b \g_rg_f jugdZo bf_xsb_ky
ZgZeh]b bggh\Zpbhggh]h ijh^mdlZ kl_ijuvgdb_o ijZjkmdlkljbky
dhgdmj_glh\ lZl_glgZy kblmZpby AZsblZ lh\ZjZ \ kljZg_ e
\g_rg_f jugdZo \hafh`ghklv ^ey dhgdmj_glh\ ijhba\h^b
ijh^mdpbx [_a gZjmr_gby iZl_glguo ijZ\
lhl_gpbZevgu_ jugdb k[ulZihDjh[bbge]_c ijh^mdpbb
ieZl_`_kihkh[gh]h kijhkZ gZ i_j\u_ ^\Z ]h^Z `_eZl_evgh ijb
kh]eZr_gbc beb aZijhkh\ Hj]ZgbaZpby k[ulZ ijh^mdp
hjb_glbjh\hqguc h[t_f aZljZl gZ __ ijh_^_gb_
Hjb_glbjh\hqgZ]Zy kh_ihklZ\e_gb_ _z k p_gZfb ZgZeh]h\
leZgbjm_fu_ h[t_fu ijh^Z`
leZg ijh^Z`

lhdZaZl_eb j_ZebaZp ijh^mdpbb	]h^					]h^					]h^ \k_]h
	<k_]	ih d\ZjlZ				<k_]	ih d\ZjlZ				
		1	2	3	4		1	2	3	4	
H[t_fu j_ZebaZpbb \ gZlmjZevghf \ujZ`_gb											
\ lhf qbke_											

Hilh\u_ ijh^Z`b											
Ihdmi Zl_ev :											
Ihdmi Zl_ev ;											
***											
H[t_fu hl]jmadb \ ^_g \ujZ`_gbb											
\ lhf qbke_											
Hilh\u_ ijh^Z`b											
Ihdmi Zl_ev :											
Ihdmi Zl;ev											
***											

Kihkh[u klbfmebjh\Zgby ijh^Z`

:

Bg\klbpbhggucieZ

6.1.1. _____

]^_ ieZgbjm_lky \uimkd bggh\ZpbZhggbhdZdihc hj]ZgbaZp mqZkld_

_____

GZebqb_ >h]h\hjZ ih ijhba\h^kl\m bggh\Zpbhg

_____.

6.1.2. :gZeba bf_xsboky hkgh\guo kj_^kl\ G_h[oh^bfu_ f kha^Zgby l_j_q_gv h[hjm^h\Zgby p_gZ ijbh[j_l_gby nhjf Zj_g^Z ihdmidZ

lhd\ZjlZevguc]jZnbd j_ZebaZpbb ijh_dlZ ij_^klZ nhjf_]^_ m_dlZkyuj\Zaf_j bg_klbpbc \ ^_g_`ghf \ujZ`_gbb b hljZ`Zxlky dZe_g^Zjgu_ kjhdb \eh`_gbc

=jZnbd j_ZebaZpbb ijh_dlZ

GZijZ\e_gby bg_kl	]h^					]h^					]h^
	k_lh	ih d\ZZe_lZf				k_lh	ih d\ZZe_lZf				k_lh
		1	2	3	4		1	2	3	4	
J_dhgkbjymdjp_fhgl											
Ijbh[j_l_gb_ h[hjr											
\ lhf qbke_											
***											
JZkoh^gu_ fZl_jb											
\ lhf qbke_											
***											
4. ***											
Blh]h											

Ijbf_j]jZnbdZ bg\gkubpbeh`_gbc ij_^klZ\e_g \ ijbeh`_gbb

Hbap bhggucieZ .

Kljmdlmj Z mijZ\e_gby hj]ZgbaZpb_c

G_h[oh^bfu_ ki_pbZebklu lj_[h\Zgby d bo d\Zebn jZ[hlu jZkoh^u gZ hieZlm ljm^Z

>Zggu_ ih i_jkhgZem

lhdZaZl_eb	?^ baf	1]h^					]h^					3]h^
		<k_]	ih d\ZjlZ				<k_]	ih d\ZjlZ				
			1	2	3	4		1	2	3	4	
Qbke_gghklv i_jk]hg												
\ lhf qbl												
ljhba\h^kl_ggu_												
JZ[hqb_ kem`Zsl aZgyluihkgj_^kl_ggh ijhba\h^kl\hf^mjdhpbb												
MijZ\e_gq_kdbc i												
Khljm^gbdb aZgy k[ulhf h^mdpbb												
\ lhf qbl												
JZkoh^u gZ hieZl ijhba\h^kgu_gjZ[hqb												
\ lhf qbl												
aZjZ[hlgZy ieZlZ												
hlqbke_gby ih _^bg khpZevghfm gZeh]m												
JZkoh^u gZ hieZl jZ[hqbo b kem`Zsbo aZgyluo g_ihkj_^kl\ ijhba\h^kl\hf dpbb^m												
\ lhf qebl												
aZjZ[hlgZy ieZlZ												
hlqbke_gby ih _^bg khpZevghfm gZeh]m												
JZkoh^u gZ hieZl mijZ\e_gq_kdh]h i_j												

dj_^blh\ jhpi_glgZy klZ\dZ kjhdb ij_^hklZ\e_gby b ih]
^hihegbl_evgu_ lj_[h\Zgby gZebqb_ ij_^\Zjbl_evgh]h kh]eZ
beb ^jm]bo aZbfh^Zl_e_c gZ ij_^hklZ\e_gb_ kj_^kl\

DjZldZy oZjZdl_jbklbdZ l_dms_]h nbgZigkyhlyh gZk
dhlhjhf ieZgbjm_lky \uimkd bggh\Zpbhggh]h ijh^mdlZ khh
aZ_fguo kj_^kl\ khhlghr_gb_ ^_[blhjkdhc b dj_^blhjkdhc
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DZevydmy k_[_klhbfhklb ijh^mdpbb
DZevdmeypby k_[_klhbfhklb ijh^mdpbb

lhdZaZl_eb	]h^					]h^					]h^
	<k_]	ih d\ZjlZ				\k_]l	ih d\ZjlZe				\k_]l
		1	2	3	4		1	2	3	4	
ljh^mdl :											
l_j_f_ggu_ jZkoh^											
\ lhf qbl											
kujv_ fZl_jbZeu dhfiedl_mxsb_ ihemnZ[jbdZlu b ^j											
lhieb\h b wg_j]by gZ l_oghbdh]kdb_ p_eb											
hieZlZ ljm^Z ijh\b_gghu jZ[hqbo											
hlqbke_gby gZ khpbZ gm`^u											
ijhqb_ aZljZlu											
lhklhygaZljZlu \k_											
\ lhf qbl											
fZl_jbZeu bgkljmf_g											
lhieb\h b wg_j]by											
hieZlZ ljm^Z											
hlqbke_gby gZ khpbZ gm`^u											
ZfhjlbaZpbhggu_ hlq											
ijhqb_ aZljZlu											
Blh]h ih ijh^mdlm											
***											
Blh]h ih ijh^mdlm ;											

7.4. ;ZeZgk ^hoh^h\ b jZkoh^h\ ijbf_j

;ZeZgk ^hoh^h\ b jZkoh^h\

]h^	
	KmffZ
Kh[kl_ggu_ kj_^kl\Z	
Ki_pbZevgh_ \hagZ]jZ`^_gb_	
<ujmqdZ	
BLH=H >HOH>H<	
ijbh[j_l_gb_ fZl_jbZeh\ b dhfie_dlmxsbo ba^_ebc	
ieZlZ haZviah\Zgb_ ihf_s_gbyfb ijbh[j_l_gb_ h[hjm^h\Zgby	
hieZlZ dhffmgZevguo mkem]	
ijbh[j_l_gb_ F;I	
ij_^klZ\bl_evkdb_ jZkoh^u	
aZjZ[hlgZy ieZlZ	
_^bguc khpbZevguc gZeh]	
ieZl_`b \ [x^`_l	
***	
BLH=H J:KOH>H<	
;:E:GK	
]h^	
***	
***	
;:E:GK	
]h^	
***	
***	
;:E:GK	

NbgZgkh\uc j_amevlZl ^_yl_evghklb hj]ZgbaZpb bggh\Zpbhggh]h ijh^mdlZ

NbgZgkh\uc j_amevlZl ^_yl_evghklb hj]ZgbaZpbbhggh]h ijh^mdlZ

lhdZaZl_eb	]h^					]h^					]h^
	<k_]	ih d\ZjlZ				<k_]	ih d\ZjlZ				
		1	2	3	4		1	2	3	4	
<ujmqdZ hl j_ZebaZp											
< lhf qbke_ G>K											
K_[_klhbfhklv ijh^md											
Dhff_jq_kdb_ jZkoh^u											
MijZ\e_gq_jZkoh^u											
Ijb[uev hl j_ZebaZpb ijh^mdpbb											
JZkoh^u \ ih]Zr_gb_											
<g_j_ZebaZpbhggu_											

«<g_j_ZebaZpbhggu_											
ljb[uev ^h gZeh]hh[e											
GZeh] gZ ijb[uev											
< lhfbdke_ \ [x^`_l Qm\Zrkdhc J_kim[ebc											
Qbkl Zy ijb[uev											

JZkq_l lhqdb [_am[ulhqghklb \ gZlmjZevguo _^bg ihklhygguo jZkoh^h\ d jZagbp_ f_`^m p_ghc j_ZebaZpbb ba^_j`_d

7.7. JZkq_l i_jbh^Zhkdlbmiih_f dlZ

JZkq_l \gmlj_gg_]h mjh\gy ^hoh^\ghklb ijh_dlZ wnn_dlb\ghklv hdmiZ_fhklb ijb dhlhjhf _ebqbgZ ihemq_gguo ^hoh^h\ jZ\g \eh`_gbc

$$<M> \frac{<-B}{\sqrt{-<B^2 \pm <-B <B - <-B}} _ \quad 1$$

]^_

< < ±\ujmqdZ hl j_ZebaZpbb ijh^mdpbb aZ i_j\uc \lhjhc b B B ±Bijhba_^_ggu_ bg_klbpbb \ i_j\hf \lhjhf b lj_lv_f]h^m

7.9. JZkq_l j_glZ[_evghklb ijh_dlZ`_ \uljgmqdb hl j_Zeb ijh^mdpbb d iheghc k_[_klhbfhklb ijh^mdpbb

7.10. :gZeba jbkdh\ gZebqb_ nZdlhjh\ ij_iylkl\mxsbo hkm b f_ju ih bo mkljZg_gbx ij_^mij_`^_gbx

7.11. ;x^`_lgZy wnn_dlb\ghklv ijh_dlZ

;x^`_lgZy wnn_dlb\ghklv ijh_dlZ

<b^Zgeh]Z	]h^					]h^					]h^
	<k_]	ih d\ZjlZe				<k_]	ih d\ZjlZ				
		1	2	3	4		1	2	3	4	
>hoh^u \ [x^`_l											
\ lhf qbke_											
GZeh] gZ ijb[uev kmffu ijb[ueb ijb mk ijb\e_q_gby bg_klbp ! feg jmlie_c hl kmffuijb[ueb											
GZeh] gZ bfms_kl\h [ZeZgkh\hc klhbfhklb bfms_kl\Z											
GZeh] gZ ^hoh^u nba aZjZ[hlgZy ieZlZ o											
JZkoh^u ba [x^`_lZ											
\ lhf qbke_											
kmffZ]hkm^Zjkl_ggh ih^^_j`dlZ j_ZebaZpb ijh_dlZ											
;x^`_lgZy wnn_dlb\gh											

25. H[sZy hp_gdZ b f_lh^u mijZ\e_gby jbkdhf bggh\Zpbhggh

DeZkkbnbdZpby]jmii bggh\Zpbc bf_xsZy f_klh \ ]hklbgbq
DeZkkbnbdZpby]jmii bggh\Zpbc bmjkaZy f
KlZ^bb b l_g^_gpbb jZa\blby gZmdb
Kh\j_f_ggh_ iheh`_gb_ k \g-l^jo_gbq_fkdZmq^hklb`_gbc \ Jhk
Pbdeu b l_g^_gpbb jZa\blby ijhba\h^kl\Z kmsghk-lv hkh[_
l_ogbq_kdh]h jZa\blby
GZijZ\e_gby eh]bq_kdh]h jZa\blby wdhghfbdb b bo bkihevah
jhkkbckdh]h h[s_kl\Z
GZm-lq_gby bq_kdZy iheblbdZ b hkgh\gu_ q_jlu bggh\Zpbhggh
mkeh\byo j_]mebjm_fhc jughqghc wdhghfbdb
Bkke_^h\Zl_evkdbc ZiiZjZl bgvhZkblbhgkhmd^myjZ_bggh\Zpb
ijhp_kkZ Ze]hjblf bggh\Zpbhggh]h ijhp_kkZ
GZpbhgZevgZ kljmdlmjZ j_]-mebgh\Zkdyhcgv^myjZ_e
Hkh[_gghklb mijZ\e_gby bggh\Zpbhgghc ^_yl_evghklvx
KljZl_]bb]jmiih\uo ijhb-avdh^dhf_kgbo kbkl_f bo lbiheh]by
Ijbhjbl_lu g-Zmqghq_kdhc iheblbdb Jhkkbb G_h[oh^bfhklv
fh^_eb bggh\Zpbhgghc iheblbdb
<b^u dhgdmj_glguo ij_bfms_kl\ Fh^_ev dhgdmj_glhkihkh
Ko_fZ mijZ\e_gby ijhp_kkZ dmjZ^Zguoy ij_bfms_kl\
Mkeh\by jZkijhkljZg_gby gh\h_^_gbc
Imlb khdjZs_gby ^ebl_evjhbkalh^kZlmqgh]h pbdeZ
FZljbpZ bggh\Zpbhgguo kljZl_]bc
KljZl_]bq_kdbc wlZi bggh\Zpbhggh]h mijZ\e_gby
B_jZjoby nZdlhjh\ mkgh^Z_glZevguo bkke_^h\Zgbc
H[sb_ iheh`_gby hp_gdb b ZgZebaZ ijh_dlh\

-3 \eZ^_gb_ gZ\udZfb kljZl_]bq_hkdh] ZgZebaZ jZajZ hkms_kl\e_gby kljZl_]bb hj]Zg gZijZ\e_gghc g h[_ki_q_gb_ dhgdmj_glhkihk	9	; ; ©Bggh\Zpbhg f_g_^`f_glª	AgZgb_\uc	©hlebqgha_l hkgh\u jZajZ[hld hkms_kl\e_gby bggh\Zpbhggh hj]ZgbaZpbb ©ohjhrhªp_ehf agZ_l hkgh\u jZ hkms_kl\e_gby bggh\Zpbhggh hj]ZgbaZpbb ©m^h\e_l\hjbl_evghªeghf h[t_ hkgh\u jZajZ[hldb b hkms_kl\e bggh\Zpbhgghc kljZl_]bb hj]Zg ©g_m^h\e_l\hjbl_evghªkgh\u ag jZajZ[hldb hkms_kl\e_gby bggh\ kljZl_]bb hj]ZgbaZpbb
			>_yl_evghklgu	©hlebqghª-mkihevah\Zlv f_lh^ kljZl_]bq_kdh]h f_g_^`f_glZ ij bggh\Zpbhgguo ijh_dlh\ \eZ^_gZ\udZfb ijbgylby bggh\Z kljZl_]bq_kdbo j_r_gbc ogZijZ\ h[_ki_q_gb_ dhgdmj_glhkihkh[©ohjhrhªp_ehf mkihevah\Zlv f_lh^bdb kljZl_]bq_kdh]h f_g_ jZajZ[hld_ bggh\Zpbhgguo ijh_ \ p_ehf \eZ^__l gZ\udZfb ijbg bggh\Zpbhgguo kljZl_]bq_kdbo gZijZ\e_gguo gZ h[_ki_q_gb_ dhgdmj_glhkihkh[ghklb ©m^h\e_l\hjbl_evghªg_mkihf -bkihevah\Zlv f_lh^bdb kljZl_]

				f_g_^`f_glZ ijb jZajZ[hld_ bgg ijh_dlh\ g_ \ iheghf h[etZ^_gZ\udZfb ijb bggh\Zpbhgguo kljZl_]bq_kdbo gZijZ\e_ggZudh[_ki_q_gb_ dhgdmj_glhkihkh[ghklb  ©gm^h\e_l\hjbl_evghaf-__l bkihevah\Zlv f_lh^bdb kljZl_]b f_g_^`f_glZ ijb jZajZ[hld_ bgg ijh_dlh\ g_ \eZ^_gZ\udZfb ijbgylby bggh\Zpbhgguo kljZl_]bq_kdbo gZijZ\e_gguo gZqhqbki dhgdmj_glhkihkh[ghklb
-6 kihkh[ghklv mqZkl\h\Zlv \ mijZ\e_gbb ijh_ ijh]jZffhc \g_^j l_ogheh]bq_kdb ijh^mdlh\uo bggh\Zpbc beb ijh]jZffhc hj]ZgbaZpbhgg baf_g_gbc	9	; ; ©Bggh\Zpbhg f_g_^`f_glª	AgZgb_\uc	©hlebqgha-hkh_gghklb jZajZ[h mijZ\e_gby bggh\Zpbhgguf ijh ©ohjhrhªp_ehf agZ_l hkh[_gghklb jZajZ[hldb b mijZ\e_gby bggh\ ijh_dlhf ©m^h\e_l\hjbl_evghaf-hkh[_gg agZ_l hkh[_gghklb jZajZ[hldb bggh\Zpbhgguf ijh_dlhf ©g_m^h\e_l\hjbl_evghaf-hkh[_gg jZajZ[hldb b mijZ\e_gby bggh\ ijh_dlhf
			>_yl_evghklgu	©hlebqgha-jZfajZl[Zlu\Zlv bggh\Zpbhggu_ ijh_dlu b ijh]jZ \g_^j_gby l_ogheh]bq_kdbo b bggh\Zpbc ijh]jZffu hj]ZgbaZp baf_g_gbc \eZ^_glZ\udZfb ijbgylby j_r_gb jZajZ[hld_ b mijZ\e_gbx bggh\ ijh_dlZfb b ijh]jZffZfb ©ohjhrhªp_ehf -mjfZajZ[Zlu\Zlv

				bggh\Zpbhggu_ ijh_dlu b ijh]jZ \g_^j_gby l_ogheh]bq_kdbo b bggh\Zpbc ijh]jZffu \g_^j_gby baf_g_gbc \ p_ehf \eZ^gZ\udZfb ijbgylby j ih jZajZ[hld_ b mijZ\e_gbx bg ijh_dlZfb b ijh]jZffZfb ©m^h\e_l\hjbl_evgh^g_mheghf -jZajZ[Zlu\Zlv bggh\Zpbhggu_ ijh]jZffu \g_^j_gby l_ogheh]bq ijh^mdlh\uo bggh\Zpbc ijh]jZf hj]ZgbaZpbhgguo baf_g_gbc g_ \ iheghf h\eZ^g_lZ\udZfb ijbgylby j_r_gbc ih jZajZ[hld_ bggh\Zpbhggufb ijh_dlZfb b ij ©gm^h\e_l\hjbl_evghª g_ mf-jZajZ[Zlu\Zlv bggh\Zpb ijh_dlb ijh]jZffu \g_^j_gby l_ogheh]bq_kdbo b ijh^mdlh\u ijh]jZffu hj]ZgbaZpbhgguo baf g_ \eZ^gZ\udZfb ijbgylby j_r_ jZajZ[hld_ b mijZ\e_gbx bggh\ ijh_dlZfb b ijh]jZffZfb

I

1. Jhkkbckdbc jughd bggh\Zpbc \ kh\j_f_gguo mkeh\byo
2. Hkgh\gu_ gZijZ\e_gby bggh\Zpbhgghc ^_yl_evghklb
3. Hkh[_gghklb hj]ZgbaZpbb bggh\Zpbhgguo ijhp_kkh\
4. Hp_gdZ j_amevlZlb\ghklb jZ[hlu bggh\Zpbhgguo hj]Z
5. DhgkZelbg]h\u_ mkem]b \ bggh\Zpbhgghc ^_yl_evghklb
6. Hkh[_gghklb ijbgylby j_r_gbc \ mijZ\e_gbyfb bggh\Zpbyf
7. IeZgbjh\Zgb_ l_ogheh]bq_kdh]h hk\h_gby ijhba\h^kl\Z g
8. Hj]ZgbaZpby dhgdmjkgh]h \uiheg_gby GBHDJ
9. JZa\blb_ dhgdmbjggh\Zpbhgghc ^_yl_evghklb
10. Ihgylby \b^u b hkh[_gghklb bggh\Zpbhgguo kljZl_]bc
11. Lbiu bggh\Zpbhggh]h ih_^_gby nbjf
12. KljZl_]bb bggh\Zpbhgguo bkke_^h\Zl_evkdbo hj]ZgbaZpb
13. IhdZaZl_eb bggh\Zpbhgghc ^_yl_evghklb hj]ZgbaZpbb
14. Ijhp_kk j_bg`bgbjbg]Z
15. F_lh^u mqZklgbdb ijh_dlZ j_bg`bgbjbg]Z
16. Nhjfbjh\Zgb_ bggh\Zpbhgguo ih^jZa^_e_gbc
17. Nhjfu b kljZl_]bb fZeh]h bggh\Zpbhggh]h [bag_kZ
18. :evygku dhgkhjpbmfu b kh\f_klgu_ ij_^ijbylby dZd nh bggh\Zpbhggh]h khljm^gbq_kl\Z
19. J_]bhgZevgZy bggh\Zpbhgghc
20. IZjdb b l_oghihebku bo jhev \ kha^Zgbb bggh\Zpbc
21. Bg_klbpbhggZy ijb\e_dZl_evghklv ijh_dlh\ b ijh]jZff ^_yl_evghklb Djbl_jbb bg_klbpbhgghc ijb\e_dZl_evghk
22. H[hkgh\Zgb_ wdhghfbq_kdhc wnn_dlb\ghklb ijh_dlZ
23. Wdhghfbq_kdhZyjlbaZ ijh_dlZ
24. Hkgh\gu_ ihgylby b dZl_]hjbb mijZ\e_gby jbkdZfb bggh\Z
25. H[sZy hp_gdZ b f_lh^u mijZ\e_gby jbkdhf bggh\Zpbhggh

II

DeZkkbnbdZpby]jmii bggh\Zpbc bf_xsZy f_klh \ ]hklbgbq
DeZkkbnbdZpby]jmii bggh\Zpbc bf_xsZy f_klh \ lmjbaf_
KlZ^bb b l_g^_gpbb jZa\blby gZmdb
Kh\j_f_ggh_ iheh`_gb_ k \g-l^jogbq_fkdZmq^hklb`_gbc \ Jhk
5. Pbdeu b l_g^_gpbb jZa\blby ijhba\h^kl\Z kmsghklv- hkh l_ogbq_kdh]h jZa\blby
GZijZ\e_gby l_ogheh]bq_kdh]h jZa\blby wdhghfbdb b bo jhkkbckdh]h h[s_kl\Z
GZmlqghbq_kdZy iheblbdZ b hkggh\u_pbdgjdh]h f_g_^`f_ mkeh\byo j_]mebjm_fhc jughqghc wdhghfbdb
Bkke_^h\Zl_evkdbc ZiiZjZl bggh\Zpbhgghc ^_yl_evghklb ijhp_kkZ Ze]hjblf bggh\Zpbhggh]h ijhp_kkZ
GZpbhgZevgZ kljmdlmjZ j_]mebjqZkhlbgbq_kdhc ihebl
Hkh[_gghklb mijZ\e_gby bggh\Zpbhgghc ^_yl_evghklvx
KljZl_]bb]jmiih\uo ijhbawdhghfbgbq_kdbo kbkl_f bo lbiheh]
Ijbhjbl_lu gZmqghq_kdhc iheblbdb Jhkkbb G_h[oh^bfh fh^_eb bggh\Zpbhgghc iheblb

JZ[hlZ ih ih^]hlh\d_ mklgh]h \uklmie_gby gZqbgZ_lky \u[hjZ l_fu KZfh \uklmie_gb_ ^he`gh khklhylv ba 15% qZk h[s_]h \j_f_gb hkgh\gc qZkaZdexq_gby lhke_ \uklmie_g gm`gh [ulh\uf d hl_lZf gZ \hagbdrb_ m Zm^blhjbb \hijhku im[ebqgh]h \uklmie_gby

khklZ\blv ieZg beb]jZnbq_kdmx kljmdlmjm khh[s_gby \u^_eblv hkgh\gu_ ihgylby

hnhjfblv l_dkl ibkvf_ggh

ha\mqblv \ mklZgh\e_gguc kjhd

		0
	Khhl_lkl\b_ l_f_	1/0
	Kh[kl_ggZy lhqdZ aj_gby gZ ijh	1/0
	JZkdjulb_ ZdlmZevghklb \u[jZg	1/0
	:j]mf_glu eh]bq_kdb kljmdlmjbj	1/0
	NZdlu ij_^klZ\e_gu lhqgh	1/0
	Kljh]bc djblbq_kdbc ZgZeba de dhgp_ipbc	1/0
	Hjb]bgZevgh b l\hjq_kdb	1/0
	:ddmjZlgh_ ibkvfh	1/0
	Dhgp_gljbjh\Zgguc l_dkl	1/0
	Q_ldh b ohjhrh hnhjfe_ggZy jZ[	1/0
	H[tzf hl ^h klj i_qZlgh]h l_	1/0
	=jZffZlbq_kdb ijZ\bevgu_ ij_^el	1/0
	G_l hjnh]jZnbq_kdbo hrb[hd	1/0
	Wnn_dlb\gh_ bkihevah\Zgb_ ko ih^l_j`^_gby Zj]mf_glh\	1/0
	:^_d\Zlgh_ bkihevah\Zgb_ bklh	1/0

Dhebq_kl\h ;Zeh\	Hp_gdZ
;he_10_	hlebqgh
8-10	ohjhrh
5-7	m^h\e_l\hjbl_evgl
Hl ^h10	g_m^h\e_l\hjbl_ev

III

Z gh\bagZ

[\hklj_[hlZvghklv gZ jugd_

\ ijZdlbq_kdZy \hiehs_gghklv

Z jZa-b f_kypZ
[jZa \ ]h^
\ jZa \ f_kyp

Z `_kldZy dhgdmj_gpby
[`_eZgb_ \g_klb k\hc \deZ^ \ h[s_kl\h
\ ex[hiulkl\h b e_gv

Z ijh]ghabjh\Zgb_
[hp_gdm ijh_dlh\
\ kgb`_gdbh_f_jq_kdh]h jbkdZ

Z hkms_kl\e_gb_ GBHDJ
[kgb`_gb_ jbkdh\
\ k_jlbnbdZpby b klZg^ZjlbaZpby bggh\Zpbhgguo ijh^mdlh\ b

Z eh]bklbdZ
[mijZ\e_gb_ i_jkhgZehf
\ [mo mq_l

2	4	5	7	8	10
Z [\	\	Z \	[\	Z \	Z [

Dbl_bbhp_gdbl_klh\

Hp_gdZ	OZjZdl_jbklbdb hl_lZ k
hlebqgh	b [he__ ijZ\bevguo hl_
ohjhrh	;he__ ijZ\bevguo hl_lh
m^h\e_l\hjbl_evgh	;he__ ijZ\bevguo hl_lh
g_ m^h\e_l\hjbl_evg	F_g__ ijZ\bevguo hl_lh

IV

Hp_gdZ	OZjZdl_jbklbdb \uiheg_gg
AZql_gh	KhklZ\e_ghZfhlgjuo \hijhkh\ dZ`^hc l_f_
G_ aZql_gh	;he__ ba \hijhkh\ ih dZ khklZ\e_gu g_ dhjj_dlgh

V

1. Ihgylb_ bggh\Zpbb bggh\Zpbhggh]h ijhp_kkZ

- ihegh lZ jZkdjulby l_fu
- kljmdlmjbjh\Zgghklv
- k\h[h^gh_ \eZ^_gb_ fZl_jbZehf
- gZebqb_ ijbf_jh\

Hp_gdZ	OZjZdl_jbklbdb hl_lZ k
Hlebqgh	b [he__ ijZ\bevguo hl_
Ohjhrh	;he__ ijZ\bevguo hl_lh
M^h\e_l\hjbl_evgh	;he__ ijZ\bevguo hl_lh
G_ m^h\e_l\hjbl_evg	F_g__ ijZ\bevguo hl_lh

Klm^_glm ij_^eZ]Z_lky jZajZ[hlZlv b^_x bggh\Zpbhggm
Kljmdlmj Z ijh_dlZb_ _Z^dlgmZevghklv b^_b kl_i_gv gh\ba
\g_^j_gby hkgh\gZy qZklv l_ogbq_kdbc ZgZeba d-hff_jc
wdhghfbq_kdbc ZgZeba bgklblmpbhgZevguc ZgZeba Zg
hkgh\gu_ \u\h^u ljh_dl ij_^klZ\e_gy_gkZypbhb^_ ij

< i i	Djbl_jbc	Hp_gdZ \ [ZeeZo
1.	DZq_kl\h ^hdeZ^Z	1 ± ^hdeZ^ aZqblu\Z_lky 2 ±^hdeZ^ i_j_kdZau\Z_lky ^hdeZ^qbd g_ ^ \eZ^_gby fZl_jbZehf 3 ± ^hdeZ^ i_j_kdZau\Z_lky k\hhd^egZh^qb\e fZl_jbZehf
2.	DZq_kl\h hl_lh\ g \hijhku	1 ±g_l q_ldhklb hl_lh\ gZ [hevrbgkl\h \hijh 2 ±^Zgu hl_lu gZ [hevrbgkl\h \hijhkh\ 3 ±hl_lu gZ \k_ \hijhku m[_^bl_evgu Zj]mf
3.	Bkihevah\ ^_fhgk-ljZ pbhggh]h fZl_jbeZ	1 ±^_fhgkljZpbhgguc fZl_jbZe ij_^klZ\e_g ^hdeZ^_ 2 ± ij_^klZ\e_gguc ^_fhgkljZpbhZgeguc_jbZhl^k bkihevam_lky \ ^hdeZ^_ 3 ± ij_^klZ\e_gguc ^_fhgkljZpbhZgeguckifhZelv_a ^hdeZ^_ bgnhjfZlb_g gZh\hij_kf\hh[jhb^_glbjm_
4.	Hnhjfe_gk ^_fhgk-ljZ pbhggh]h fZl_jbZeZ	1 ±ij_^klZ\e_g iehoh hnhjfe_gguc ^_fhgkljZ 2 ±^_fhgkljZpbhgguc fZl_jbZe ohjhr g_^hqzlu 3 ±d ^_fhgkljZpbhgghfm fZl_gjbZeg_ij_

:

1. ljh_dl gZb[he_khhl_lgkl\m_l lj_[h\Zgbyf d±hnhjfeZ_gbx
2. ljh_dl \ ^hklZlhqghkhhl\i_gkl\m_l lj_[h\Zgbyf d±hnhjfe_g [ZeeZ
3. ljh_dl qZklbkdhghl_lkl\m_l lj_[h\Zgbyf d±hnhjfe_gbx
4. ljh_dl g_ khhl_ljk[\m\Zgbyf d hnhj±fe_Zeex h\

Hp_gdZ	;Zeeu

Hlebqgh	13-15
Ohjhrh	10-12
M^h\e_l\hjbl_evgh	7-9
G_ m^h\e_l\hjbl_evg	1-6

1. < Bggh\Zpbhgguc f_g_^`f_gl mq_[gbd ^ey \mah\ K < FZevp_\Zl_lkl_gguc j_^<ZFdZhejvpK_²\ZFhkd\ZBa^Zl_evkl\h XjZcl ² 527 k ² <ukr__ h[jZah\ZlBN 978-5-534-15607-2. ² L_dkl we_dljhgguc H[jZiæhZ\lZnlh_jeZgXZjyZcl ³kZcl@ URL: https://urait.ru/bcode/509174
2. F Bggh\Zpbhgguc f_g_^`f_gl mq_[gbd b ijZdlbdmf ^e \mah\HF Ohlyr_\Z: HKe_kZj²_3-_ ba^ i_j_jZ[Fhkdl\Z Ba^Zl_evkl\h XjZcl326 k ² <ukr__ h[jZah\ZlBN 978-5-534-00347-5. ² L_dkl we_dljhgguc H[jZah\Zl_evgZy²eZlnhjfZ X URL: https://urait.ru/bcode/489019

hihegbl_evgZbl_ZmZ

1. ;Zjur_\Z : < Bggh\Zpbhgguc f_g_^`f_gl -Mqb_a[^gh_ ihkh ;Zjur_\Z D < ;Ze^bg F²FF Bs>ZgrdlH\ b D² 384 c.
2. <vx]bgZ E D Bggh\Zpbhgguc f_g_^`f_gl Kljmdlmjgu_ Mq_[gh_ ihkhE[D <vxFbgXZG B>H - k
3. Bggh\Zpbhgguc f_g_^`f_gl mq_[gbd b ijZdlbdmf ^ [ZdZeZ\jbZlZ < : :glhg_p >b ^j @ ih^ j_^ <2-:_ :glh ba^ bkij ²bF^hi Ba^Zl_evkl\h Xj²Zcl k
4. Bggh\ZhpgguZc f_g_^`f_gl Mq_[gh_ ihkh[b_ < > -=Fjb[h\ BGNJ-F - k
5. Bggh\Zpbhgguc f_g_^`f_gl mq_[gbd ^ey ZdZ^_fbq_kdh FZevp_\Z >b ^j @ hl\ j_^ FK B<a^FZZeevpk_l\\Zh XjZcl 527 k
6. L_[_dbg : < Bggh\Zpbhgguc f_g_^`f_gl Mq_[gbd ^ey L_[_dl³gF XjZcl ² 476 c.

I_jhhbq_kdb_baZby :

1. Wdhghfbq_kdbc `mjgZe
2. Bggh\Zpbhgguc f_g_^`f_gl
3. Dhjihjlb\gh]h j_\e_gjhkkbb
4. Bggh\Zpbb

GhjfZlb\gh]h =jZ`^Zgkdh]h dh^_dkZ Jhkkbckdhc N_^_jZpbb Dh^_dk dhjihjZlb\gh]h ih_^_gby NDP;]

1. W ; K B a ^ Z l _ e v k l \ Z R I X j Z s c / https://www.biblio-online.ru.
2. W ; K © A g Z U R b . n h f ª http://znanium.com.
3. http://biblioteka.smolgu@.ru ± w e _ d l j h g g u c d Z l Z e h] [b [e b h l _ d b K f h
4. http://www.vopreco.ru/ - @ m j g Z e © < h i j h k u w d h g h f b d b ª
5. http://www.expert.ru/ - @ m j g Z e © W d k i _ j l ª
6. http://www.informika.ru/ - H [j Z a h \ Z l _ e v g u c i h j l Z e © B g n h j f b d Z ª
7. http://economicus.ru/ - I j h _ d l b g k l b l m l Z © W d h g h f b q _ k d Z y r d h e Z

J _ n _ j Z l U H I H U R e Z d l j Z k d h h [s b Z x e h ± ` _ g b _ \ i b k v f _ g g h f \ b ^ _
g Z m q g u o l j m ^ h \ i h \ u [j Z g g h c l _ f _ b k k e _ ^ h \ Z g b y
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H [t _ f j _ n _ j Z l Z k h k l Z \ e l y Z l g b p f Z r b g h i b k g h] h l _ d k l Z \ a Z
l j _ [h \ Z g b c i j _ i h ^ Z \ Z l _ e y
D j b l _ j b b h p _ g d b j _ n _ j Z
K h h l \ _ l k l \ b _ k h ^ _ j ` Z g b y l _ f _
I j Z \ b e v g h k l v b i h e g h l Z b k i h e v a h \ Z g b y b k l h q g b d h \
K h h l \ _ l k l \ b _ h n h j f e _ g b y j _ n _ j Z l Z k l Z g ^ Z j l Z f
I h m k f h l j _ g b x i j _ i h ^ Z \ Z l _ e y j _ n _ j Z l u f h] m l [u l v i j _ ^ k l Z \ e
l Z d ` _ b k i h e v a h \ Z l v k y d Z d a Z q _ l g u _ j Z [h l u i h i j h c ^ _ g g u f l _ f Z
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b l i K e _ ^ m _ l i h ^ [b j Z l v e b l _ j Z l m j m h k \ _ s Z x s m x d Z d
i j Z d l b q _ k d m k x j h g u i j h [e _ f u I j _ ^ \ Z j b l _ e v g h _ h a g Z d h f e _ g b _
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\ h i j h k h \ h o \ Z l u \ Z _ f u o l _ f h c b k h k l Z \ b l v j Z [h q b c i e Z g j _ n _ j Z
B a m q _ g b _ h l h [j Z g g u o e b l _ j Z l m j g u o b k l h q g b d h
I h k e _ l h] h d Z d k h k l Z \ e _ g i e Z g j _ n _ j Z l Z k e _ ^ m _ l i j b
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Microsoft Office 2003-2016 Russian.

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ДОКУМЕНТ ПОДПИСАН
ЭЛЕКТРОННОЙ ПОДПИСЬЮ

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