

КЕЛЕЧЕКТЕГИ АЙЫЛ МЕКТЕБИННИН МУГАЛИМИН ЭКОЛОГИЯЛЫҚ НЕГИЗДЕ ДАЯРДОО

КАЧКЫН УУЛУ А.

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УДК 371.3

:aujdu d_a^_ 'ed'[a^'] [beb[_j kbkl_fZkug fh^_jg
f_dl_il_jbgbg brf_j^ e] ^Z]u hemlmm 'a]'j Z@'j'a]'ljZeeZj]'du
ueZcudm]Zebf^bg brb ihebnmg d@b@b@lge@he]bnyeud `ZgZ i_ ^Z]h
`Z]^ZceZj^u [ZrdZjZ w@b@el@k]byeud `ZdIZg ^Z@j^c@u@ZgZ [Zj^c^j^g
d h j],hZhj] h[b j Z^Z f]Z lugufku a `ZjZlueurl@Zg@Z
[Zrduku bggh\Zpbygug [Zj^ud l je'j g' bcd_f^ [he]hg fm]ZekZcug 'k. ^'

:cue f_dl_il_jb `ZjZlueur,dZcèZg q'cj' f_g_g lu]ua, [Zce
fm]Zebf^bg wdheh]byeud [Z]u, lIZj[Zoyuedu dk Zp[~~Z~~ndd k dmjkby `Zg
dheehd\bmf^Zj^u 'l ``'g^f^, Zg]^Z[henk]Zebf i^Z]h]bdZeud f
`h]hjm [hemi wk,_iflu~~g~~^tZc_l fm]Zebf f_a]be^bg lZ e,Z Zucgu e lZ e
Imj]mg^Zjugug fmdlZ^udlZjugZ `hh[i _j]_g d_kbid'c Z^bk [he
Fm]Zebf^_j^b Zcue f_dl_il_jb g_. ≈Znyjjv\yghhg\| FjZgbqgbdh
= .<D h g^jZ|_gDzha u o Zgh.\Zab e:^_i 'l.[1b2,3;4,5.]

:cue fm] Zebfb we^bg ^_g khhe mðmjõg q gl ZdanZ q Z ð Zng mqg [_e
wdheh] byeud [bebfb f_g_g IZj[b y^g j^h d m n]q, ræZæZij]dZu `ZgZ [heh
fmmg^Zj ð geZgZ q'cj'g dhj]hh g m g f Z Z gðrk bZge u[i_ ð Zj en_m k m
i_ ^Z]h]bdZeud fZ^Zgbylu dZeuiIZg]Zg fm]Zebf. Fugzg `Z
lurdZju IZ[byllZ]u dhhikma^ñZjZru ðkZrd l'hZhg^u dIZj^u `ZgZ IZ[
j_kmjklZjug lmmjZ iZc^ZeZg m m g m mxmr l m j m m]Z [Z]u llZe
d_kbid'c fm]Zebf^bg h^m.qh fZZgb]_ w w

Hdmfmr\mmeZj^{ug} babe^{'e'j} g' iZygmm f_g_g Zcue f_dl
wdb lhidh ['e^ d

x:cue f_dl_[bgbg fm]Zebfbgbg brf_j^ e] g(gZjhZldejugdZ'j
`Z dug [hेम्ज्ञै॒हौdZeud g_]ba^_ kZ[Zd 'l]' lZ[b]uc r)Zj||Zj^ug

x:cue f_dI_[bgbg brf_j^ e] g^'] l_j.k:cd'è gf_rldj_il_jbg
`_lbrwwjebd l_j^' dZjZ`Zl ['è `gh[]h'jgd'm] d\ZebnbdZpb yemm Z
`h dl m]mZcue f_dI_il_jbgbg [bjb [bjb f_g_g lZ`juc[Z Z
kbkl_fZeZrlujue]Zg br nhjfZkugfu_gdI`hlblgn] b_e bfb_c `ZgZ fZ'
[h[hjehj^hg Zeuk [hebrijf4k44[.] [

:cue f_dI_[bgbg brf_j^ e] g dZjZi q uZdedZg]Zg ddZog`bZgc Z
b rI_cI ^_g kmjh h i,ZZ]Z d_h_e_h_b_dI_]b Zcue fm]Zebelbog, ^Zyj/
ички `Zgжеке nZdlhjehj IZZkbj lbc]bawwjbг ^Zebе^_i [ZkZ [_e]b

: i_ ^Z]h]bdZeud d_kb[b lZg^h h k m g h@m n@lrb eZp@u
d_kb[b lZg^h h brf_j^ e] g fZdkZlmm ` ZgZ d h r m.f E Z d\Z y j^ u
n_jf_j^bd ` ZgZ ^ucdZgqueud, jaZZj@Z e @jdug Z]jh,d eZ k kd Zjg^Z c
d'j]'af'e'j]'hebfibZ^Z,eZj@Zglud hdmlmmjZ ` ZgZ f_dl_ilb
|Zg^Z]Zg d kb[b [hxggZ ii ^f ||bd dmikZiZ dZlurmmmkm

: @H@^mg [bebfb[_jijhp_kkbgb(gd_kab)j'@]`ee] e d
qu]ZjfZque@dm!mmqmeZj^ug dhfj_↑b@pbie@bgZeZj^ug f_lh^b
`ZdIZg dZfkua^Zg^ujueuru `ZgZ dZ[bg_ll_j^bg d_j_dl h dr
dZfkua^Zg^ujueuru

Жеке нZdlhjehjmgZ d_e_q_dl_]b Zcuet'afng]Zebf^bg^Zb^bgd_kb[
d_kbilbd kZiZldZ w'va ghe mfmfdmgq e,d'l"jg g'f^ e dl'j g d'jk'l'
Zem)krd_ bgkZg^ud k[5.92497]u

:e wfb fm]Zebf^bg IZ[bylIZ]u dhh,ik jaZNmelum 'kZgdNuhdl Zjug
ImmjZ fZfbe_ duemm `ZgZ IZ[bylmgnjjZ kinjckVZfZg mmgm mxr
[Z]ullimm fZk_e_e_j^b q_q ^' l'f'gd ^'c fbe^_ll_j^b dhxmrZI

♦ F_dl_id_ q_cbgdb IZj[by f_idrHgEhcbgve_ ZIZcug hjlh
`h]hjdm hdmm `ZceZjug^Z wdheh]byeud [bebfb[_j g_]ba^_jb

♦ @hhilmm duafZldje_j f_g_g d_kbi wwe_jbgbg wdhe
ZceZgZ q'cj'g dhj]hh [hxgq;Z [bebfb Zemmkm

♦ :ceZgZ q'cj'g dhj]hh [hxgqZ bebfb c babe[Z]eI,j,h `j
hdmmqm f_g_g fm]Zebf hjlhkmg^Z Ze]ueuzjZlmebrlZewiz[bljrd
dm[memrlZj `'g g^' fZZeufZldZmew[babfbkjm 'd e^'j g g Z
q'cj'g dhj]hh]h dhrdhg kZeufu

I_ ^Z]h]bdZeud d_kbi [ZrdZ d_kbil_j^_g ZcujfZezZfu b
Z^Z]Z [Z]ullZ]Zgfm]Zebf 'a]'jl q `ZgZ [ZrdZjmmqm
wk_il_ebg_l I_ ^Z]h]^mg fZdkZlu [he]hg hdmmqm mgmg bgkZg^u
`ZgZ 'a]'jmlrm]Z [ZceZgurlmm Ze b,gw_fbeppbHgZzeaud`ZgZ nba
`ZdIZg 'k r g dZfkua^ZgUejZl_j]_kb^_ 'a]'q' i_ ^Z]h]bdZe
]mfZg^m mleened_dlb\^bd `ZgZ qu]ZjfZque f g'a]`ww

D_e_q_dl_]b Zcue fm]Zebf^_jbg ^Zyj^hh^h w [bjbqqb^
dZg^Zc rZjllZj^Z brl'k g wkd_RZzjmfn_daz]b_g ZcujfZeZgui
f_dl_il_jb [Id e Zcue lmj]mg^Zjugug d' e qhj^hgm^Z
[_e]be_k_d [hZj]h]bdZeud [bebfbZleah]byeud `ZdIZg Zcue
j_nhjfZehHjH_jgbazpbyehh]h `ZgZ wkdbgb kZdlhh f_g_g `Z
fm]Zebf]_ fmdIZ`^ud >'kf_d' fug^Zc fm]Zebf wdheh]by^Z [h
djbabklbd dm[memrlZj^u Z ^Zi `ZgZ .Im@h]l[bjen^kn ZaZljwe]Zg
Zcue^Z]u f_dl_i fm]Zebfb hdmmqm eZj^ug gZaZjug]Zg-Z 'a
wg_kbg `ZgZ Imm]Zg^Zjug:\tZj]bul_dZflufm]Zebf^_j^bg, kaag'aZd
IZjlui ducf,ub] ZjZd_l b `ZgZ fZfbe_kb f_g_g hdmmqm eZj^u
'a]'jli'kl'g ZeZj^ug `Zg, 1moxgf^gg `ZgZ `Zjhhd_jeb]bg 'g dl
[_d_jbg_g memm Q_o hdmfmrImm i_ ^Z]h]m Yg.:fhk Dhf_gk
I_ ^Z]h]bdZeud ijhp_kkl_ fm]Zebf^bg ZIZcug wd,h[ebh]hdyeu
I_hjbyeud `ZdIZg bebf]_ ww [hemi ijZdlbdZ `a^{ll}dhw^qmg
kZdlZdeekZa^Zj^u dmj]ZlZ[cegZ Zgug kZ[Z]u l[blnebZdka `Zg
wdheh]bygug kZdlZeurugZ kZeuf dhrihcl. [3.14-16.] Z ueuriZc[
Fm]Zebf^bg f_dl_il_]b fbdjhq'cj'g mxrlmjZ [be `'g^
fZdlhh]hZgld_gb Ze `_j^_ f_dl_i fm]Zebfb]Zebf nfjZg g hdmmq
hjlhkmg^Z]u ,fZdfbile_il_j^[bebfb^bk ce` fZ^Zg,b,yq]w]Zj]fZqueudlug
g_]babZjZlueurdZ dZcjZ`ZdrmajmtZg^yjZoreZgZ q'cj'g dZ[ue Ze
`ZgZ `h]hjdm fZ^Zgkby]b]dZeud d'a dZjZru dZeuilZg]Zg hdmm
qu]ZjZDhrlmfqZeZi ZcIkZd Zcue `_j]_kb^_]b Z^Zf^Zj ,f_dl_
[ZeZgug `Zjdug d'_eg_q'f]bge] g `ZgZ l_jk d'j g rl ^Z]u h d
^Z]u f_dl_ilbg brf_j^_ e] g.' `dl'r'!
HdmfmrImm=Fnjlvgh\Zgug Zclmmkmg^Z f_dl_i [me Zcue^u
dZlZju d'WI]_j rZZjeZj^Z fZ^Zg,b,cb]bZgZ Zj]fZqueudlug
Z^Zf^Zj `mfmr f_g_g dZfkua^Zg^fjulil_i hrhe Zcue^ug bfZbZgZ ZeufZl `ZgZ gjZ\Z
[h[hj dZlZju dZ[ue ZeuGhied_wel f_dlh_dhm_mqmgmg k_a,bf1Ze
Zlfhkn_jZ f_g_g]b^j,h kdwqjZugeulg d f_g_g dZuadullemgdbl_id_ dbj]

`Zgu[ZjeZj^WgK f_g_g =WKlb ZcujfZeZi ZeZj]Z ZgZeba` j] al
 wdheh]byeud lZj[by brl_jb a je .[h1830-.]_k_d [hehl
 Hahg l_rbdli_4pgbdZeud w,n nm_eVljjZnbhe_llbd gmje_Zgmm
 rZjugug hjlhqh l_fi_jZlmjZkugug 'k r `ZgZ [ZrdZ]eh[Z
 hdmfmrlmmeZj^ug d' e g l_crée_wfbd_Zeule `_j]_kb f_g_g [Zce
 wdheh]byeud ijh[e_ZfcZeeZgZuq'cj'g , lkZdldchhj^mg ducueurug lh
 lZdIZi ZclDZg^Z `_j]bebdl ^_]wwe^_ q_q q d'c]'ce'j^ [h
 Z[a_Fem]Zebf
 Klm^_gl i_ ^Z]h]bdZeud [bebdf Zeui `Zl_kib hbejhdZj Zn]Zm g_Z g g g
 fZjdh iheh ZjdZjugug `ZgZ d'f j duqdue]Zaugug `_ [he[hk
 [ZeZkugug `Zrhh lbjbqbeb]bg^_]b h j^Zrgg^Zgued lfZid l[lekm]Zebf
 ^_]g]_ d f'g:èhwfb fm]Zebf^bg fZ^Zgby lhmZre[ZgZm 'fjmef_g
]Zjfhgby^Z `ZrZi Zgu , kZddZ]jZig]kl j]'g]' kZeufug dhrfmg Z^
 `h]hjdm ^_]wwe^_]b fZ^Zgbyllmm Z^Zfi[h ejmg dlk_ih_cebonge_AZj
 kZeui 'l r.d'g
 DZqZg]ZgZ f_dl_]b [blZpfb y[ejh h `ZgZ dZeuiZg^ujmm ij
 dhhf^mg'cj'g g lZZkbjbg_g `h]hjmhdg_hkdl_ilbg brf_j^ e
 ijh^mdl b^ .[hedeill_i hdmmqmeZj^u]ZgZ hdmlizklZg Zcue lm
 wdheh]by]Z [ZceZgurdZg k_fb gZjeZc^u e mnxj]lmmg hmZju q g
 [ZZemmemdIZj^u]rZg^Zk'q'cj'g g wdhkbkl_fZkugug kZdIZ
 kZeufug d,h Zgl^Zc f fd gq e d i_ ^Z]h]bdZeud fZ^Zgbylu `h
 lbcbrl.[2. 45-]
 :cue f_dl_[bgbg fm]Zebfbgbg brb ihebmngd pZehgZ^e^u
 ij_ ^f_llbg ,wfwb il_]b lZj[byeud brl_j^bg ,dkbphbhZl hjjZndlbd `Z
 dhrmfqZ [bebdf [_j g .g> mfk_lZl_w_e_q_dl_]b Zcue fm]Zebfbg
 f g'a^' ^Zyj^h h @H@^h ZlZcug ,dZjeZejdr_k bid bd dd h fi _l_gpb
 dZeuiZg^u jZremu bebf brl_j `ZgZ ij_ ^f_llbd `Zd,l Zgm^Zgjil bge
 gjZ\Zeud ihl_gpbZeug. lja[bjulc `ZgZ]mfZgbIZj^ud bebf^_j]
 [mj^m.jmanujdu f_a]be^bg fm]Zebfb babe^';qa [gh em'mh km ZdZ
 ij_ ^f_llbg `h]hjdm ^_]wwe^_ f_ZgZlebka]b_yke_ud brl_j^b ZldZjk
 f_a]be^bg ijh]j_kkb\^ fm]Zebfb ^_i Zlhh h lhemdf fd g

Адабияттар:

- =mjvygh\ZKE_elvkdZy rdheZ k k[[hsjgkldhgZm q g h f_lh^bq_k Fbo fZl_jb
 < E :> H, 2000. -K 7-64.
- >jZgbqgbdh\ ljh_kkbhgZekgZgh\ e_gb_ fheh^h]h mqbl_ey \ mkeh\ rdheh<_k lgb d D=GL :bG_d jZh3, 2002. K 32-38.
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- Dhg^jZl_gd:h\ K_evk dZy h[s_h[jZah\Zl_evgZy rdheZ gZ: kh\j_I_ ^Z]h], 2002. 342k
- Q_jgy\kdZy_ ^Z]h]bq_kdZy l_o g F.d qm\phi Zye 2006}176k