

c0tYi DtbYl I weeZ0 kxl R tmgbv mfvcwZi mPbv e³e

ARq ivq

Avtj vPbvq AskMhYKvi x cufZeM⁹Ges mpxgEj x,

ukTlv Avt`vj b AvtqwrZ 0c0tYi DtbYl I weeZ0 kxl R AvRtKi tmgbv i Avcbv` i AvSwi K ~MZ RvbvB| GB Avtj vPbv mfvi AvtqvRtbi tc0tb tQvE cUfwg itqtQ|

GK| Avcbv v Rvbb th weeZ0v` i RbK Pvj m Wvi DBb 1809 mvtj i 12B tdeqvixZ RbMhY KtiwQtj b| Avi Zvi mvov RvMvbn M8'0 Origin of Species 0 cKwkZ nq 1859 mvtj i btfat gvtm| mvov wetk! 12B tdeqvix Zwi LuU weAvbx I AbpvUrmygntj Wvi DBb w`em wntmte cwj Z nq| Avgv` i Bt`Q wQj H w`emwUtz GB tmgbv wU Abpvvbi ga` w`tq Awfe`w³v` i c_c0 kRtK k3v Rvbvbn, wKS' bvbv Kvi tY tmwU mae nq w|

`B| Avgv` i bvbv KvRi mntvMx msMVb 0gy³gbv00i `Rb m`m`, hviv, ukTlv Avt`vj b gtAi I m`m`, c0tYi weKvk Kx fite NUj Ges weeZ0bi c_ ati c0YxRMtZ cRwZi D^me Ges gvbtl i Awefw wbtq m=c0Z `wU cy K wj tLtb hv AvRtKi tmgbv i mvt_ c0mwZK| cy K `wU nj t

1. gnwetk!c0Y I ep^xgEvi tLutR N AwfwRr ivq I dwi` Avntg`
2. weeZ0bi c_ ati N eb`v Avntg`

`wU eB0B cKvk Kti tQ 0Aemi 0 bvtgi cKvkbv ms`wU|

GB tmgbv Abpvvbi Avi GKwU c0QbaKviY nj c0tYi D^me I weeZ0 wclq wbtq Avtj vPbv ga` w`tq Avgiv GB cy K `wU mvt_ Avcbv` i cwiPq Kwitq w`tZ PvB| Avgiv gtb Kw GB `wU cy Kti ga` w`tq c0tYi Dtbtl i RvUj I _p inm`_tj v Ges wyeZ0v` i ASwbnZ K_v_tj v Ges Gi eZ0vb eAwmbK Ae`vb mvavi Y ep^xgvb cvVtKi KvQ mnR I mj wj Z fvlvq Ztj aiv ntqtQ|

cy K `wU Avgv` i nvtZ GtmtQ tdeqvix gvtmi gvSvgnStZ, dtj KvH2 tdeqvix gvtm Avgv` i ctTl GB tmgbv i AvtqvRb Kiv mae bv ntj I `ZZg mgtq Avgiv Gi AvtqvRtb mg_0nB|

Avgv` i AvgstY Avgv` i m9wmbZ Aw_wZe` Aa`vcK g. AvLZvi 3/4vgvb, Aa`vcK w0tRb kg0, Aa`vcK GBP tK Gm Avtiwdb, Aa`vcK kwn`j Bmjvg Ges Rbve Awmd mvov w`tq Avtj vPbvq Dcw`Z ntqtQb N Avgiv Avgv` i msMVtbi cTl t_tK Rvbv`Q Atkl KZAZv|

Avgv` i Bt`Q GB Avtj vPbv ga` w`tq weeZ0v` i Avmj K_v_tj v Ges c0Ymwi inm`gq w`K_v_tj v Dtv Avnte hv ga` w`tq Avgiv Wv`Db I weeZ0v` i Ab` Kkxj et` i Rvbe Avgv` i k3v| Avgiv Avkv Kie AvRtKi Avtj vPbv mfvi we` » Avtj vPKe` cy K `wU Avtj vPbvK tK`^Kti AvRtKi tmgbv i wclqe`j I ci Avtj vKcvZ Kti tk0Zv` i Avi I Avtj wKZ Kiteb|

Awg Avtj vPbv ceKtI cbivq Avcbv` i KvQ wdti Avme °³ Avtj vPbv mgq| BwZgta` Awg Avgv` i gtAi

mn mʔúv` K Rbve mvBdi ingvb ZcbtK Abp̄vbw cwi Pvj bvi Rb` Abt̄iva KiwQ| Awg Avkv Kie Avtj vPbwU
cŲYeš-n̄te Ges Avcbviv Mfxi f̄vte Dct̄fvM Ki t̄eb| Avcbv̄t` i Ātkl ab̄ev` |

mfv̄cwZi f̄vly

we` » I ḡt̄bv̄g»Ki Avtj vPbv I c̄k̄t̄Evi cēf̄kt̄l c̄ŲvgwdK mfv̄cwZi w̄nt̄m̄te Avgvi `ŲPvi K_v ej vi K_v| ej v
ev̄uj` th, w̄KQŲY Av̄t̄M cŲY I weeZ̄B̄ev` w̄bt̄q t̄l, ĀvbMf̄cAv̄tj vPbv nt̄q̄t̄Q Gi I ci Avgvi H `yU w̄el̄t̄q thvM
Kivi mvgvb`B Av̄t̄Q|

mfv̄cwZi GKwU c̄wēĤ `w̄qZ̄i nj Avtj vPbvq Ask̄t̄bqv Avgvi mnKḡP̄weĀ eŲt̄` i Avgv̄t` i msMVbwUi c̄Ų t̄t̄K
ab̄ev` I KZĀ c̄k̄vk Kiv| cv̄t̄Q K_vi Rv̄t̄j Ave× nt̄q G gnr KvRwU Ki t̄Z f̄t̄j hvB ZvB GwU mēŲM̄m̄ūb̄e
Kwi | Aa`vcK Rvgvb, Bmj vg, Av̄tiwdb, kḡP̄I Aw̄md Avcbv̄t` i Ātkl ab̄ev` | m̄p̄xgĚj x Avcbviv Ātkl `ah̄
w̄bt̄q GKwU bxim w̄el̄t̄qi I ci Avtj vPbv i t̄bt̄Qb GeRb` ab̄ev̄t` i w̄msnfv̄M Avcbv̄t` i c̄Ųc`| Avcbviv Avgv̄t` i
KZĀZv cv̄tk Ave× K̄ti t̄Qb, Z̄te Avgiv Avkv Kie th Avgv̄t` i f̄wel` t̄Zi Ab̄p̄v̄t̄bl Avcbviv Av̄m̄t̄eb|

GK_v KwU et̄j B Awg Avgvi `vq mvi t̄Z cvi Zvg, w̄KŠ` GwU Ki t̄j Avgvi AwZ w̄c̄Ųfv̄Rb M̄ŠKvi t̄qxi I ci
Aw̄ePvi Kiv n̄te| Zviv w̄b̄Ųq P̄vB̄te Av̄R̄t̄Ki Avtj vPbv m̄f̄vi mfv̄cwZi w̄nt̄m̄te Ac̄l̄z f̄v̄lvq nt̄j I `ŲPvi wU f̄vj
g` K_v ewj | Awg Zv̄t` i g` ev̄m̄vi cv̄Ĥ nt̄Z P̄vB bv| m̄Zivs m̄st̄Ųt̄c w̄KQy K_v, w̄el̄q m̄ūt̄K̄bq, eB `yU
m̄ūt̄K̄P̄

c̄Ųt̄gB et̄j i w̄L eB `yU i t̄Kvb mgv̄t̄j vPbv Av̄R Awg Kie bv| c̄t̄oi t̄b ax̄ti m̄t̄` H KvRwU Awg c̄ti Kie,
K_v w̄j vg| w̄Zb Rb M̄ŠKvi B Avgvi tek w̄b̄K̄t̄Ui Ges Ḡt̄` i m̄v̄t̄ Avgvi m̄ūK̄t̄m̄w̄m̄³| et̄j i vLv f̄vj
w̄ZbRbB ḡj̄gbvi m`m̄, t̄mB m̄t̄Ĥ Avgv̄t` i w̄KŲv Av̄t̄`v̄j b ḡt̄Āi l m`m̄, Awg AšZ ZvB w̄etePbv KwU |
Avcbviv Aem̄t̄i i GKRb Aw̄aKZ̄Ų e³t̄e` Kx Kv̄i t̄Y Zviv eB `yU c̄k̄vk K̄ti t̄Qb i t̄bt̄j b| mvgvb` w̄KQy t̄wU
(100% t̄wU ḡj̄ Kiv c̄Ųq Am̄e) v̄Kv m̄t̄ĤI c̄k̄vkvb `yU GK K_vq cwi Q̄b̄q Avgvi tek f̄vj t̄j t̄M̄t̄Q,
Ab̄t̄` i K_v Rwb bv| Z̄te w̄ei`c ḡše` t̄Zv Kvi I Avtj vPbv̄t̄ZB t̄` Lj vg bv|

Avi GKwU K_v ewj , eB `yU i w̄el̄qe` w̄KŠ` ci` Ųt̄i i m̄ūt̄K̄| Aw̄f̄w̄Rr I dwi t̄` i eBwU c̄ŲYi D̄t̄b̄Ų, GK̄t̄Kv̄l̄x
R̄x̄tei D̄m̄e Ges Zv t̄t̄K eŲt̄Kv̄l̄x R̄w̄Uj t̄t̄K R̄w̄Uj Zi R̄x̄tei D̄Ěi Y, w̄eK̄vk I weeZ̄Ųbi PgKc̄Ų Kw̄n̄bx
thLv̄t̄b t̄kl nt̄q̄t̄Q, t̄mLv̄b t̄t̄KB weeZ̄Ųbi c_ āti c̄w_extZ w̄ēf̄b̄el m̄xgv̄n̄xb `ew̄P̄t̄gq c̄Ųw̄Zi D̄m̄e, w̄eK̄vk,
weeZ̄Ų Avevi KLb̄l w̄eb̄vk N̄t̄Ūt̄Q Zvi GK `xN̄Ųiv̄ḡw̄UK D̄cv̄L̄v̄b eb̄v Av̄nt̄g` Zvi weeZ̄Ųbi c_ āti eB̄w̄Ūt̄Z
Z̄t̄j āti t̄Q| m̄et̄k̄t̄l GK āi t̄Yi c̄Ųt̄gU t̄t̄K weeZ̄Ųbi c_ t̄et̄q t̄Kgb K̄ti Avgiv t̄nv̄t̄gv m̄w̄ct̄qbm A_Ų
eȳx` x̄B ḡv̄b̄j c̄Ųw̄Ziv j Ų̄w̄aK eQi Av̄t̄M aiv c̄ŲŲ Aw̄ef̄Z̄ nt̄q Ų̄w̄ec̄j v G c̄w_exi KZ UK̄z R̄w̄b̄Ų w̄e`šq̄f̄iv `w̄Ų
w̄bt̄q t̄m̄v̄Rv nt̄q `w̄ot̄q̄Ųj vg Zvi `eĀw̄b̄K Z_`w̄b̄Ų A_P t̄iv̄gv̄ĀKi GK Kw̄n̄bx Z̄t̄j āti t̄Q eb̄v Av̄nt̄g` bv̄t̄gi
GKwU w̄ḡw̄Ų t̄ḡt̄q hvi t̄ckv w̄m̄t̄Ug Ḡbv̄j v̄B̄w̄m̄ ev c̄xw̄Z w̄et̄k̄t̄Y|

R̄x̄tei, Zv hZ Ų̄j̄` I t̄ḡŲj KZg t̄nv̄K bv t̄Kb, c̄āvbZg %ew̄k̄Ų nj , Aw̄f̄w̄Rr I dwi ` et̄j t̄Qb Zv̄t` i eB̄t̄q Ges
W. R̄vḡvb̄l t̄mK_v c̄p̄j `t̄j L̄ K̄ti t̄Qb, th `q̄s̄w̄q̄q̄ i v̄m̄v̄q̄w̄b̄K c̄Ųq̄v̄h w̄bt̄Ri c̄ŲZ̄ifc `Z̄wi t̄Z mvg_` , hv̄t̄K Avgiv
ewj `Z̄t̄c̄p̄j `rcv` b Ų̄lgZv| Aw̄f̄w̄Rr-dwi` ew̄ȲZ Av̄Yex̄Ų̄w̄YK mij R̄x̄teiv m̄v̄avi YZt̄ c̄p̄j `rcv` b NUvq
w̄bt̄R̄t̄` i t̄Kv̄l w̄ef̄v̄R̄t̄bi ḡv̄a`t̄g| Zv̄t` i c̄j̄` t̄K c̄Ųw̄Zi K_v t̄bB, v̄Kvi K_vl b̄q| R̄x̄eRM̄t̄Zi weeZ̄Ųbi GK
ch̄v̄Ųq t̄`Lv t̄`q GKB Ų̄t̄k̄iȲt̄ZŲ `x̄-R̄xe I c̄j̄-R̄x̄tei | Avevi Ggb R̄x̄tei I Aw̄`Z̄j i t̄q̄t̄Q hvi ḡt̄a` GKB m̄v̄t̄_
`x̄- I c̄j̄` ew̄k̄Ų w̄e`ḡv̄b̄j D̄P̄Zi R̄x̄tei t̄Ų̄t̄Ĥ c̄p̄j `rcv` b N̄t̄U `x̄ I c̄j̄- R̄w̄Zi c̄Ųb̄t̄bi ḡv̄a`t̄g| GKwU
c̄Ųw̄Zi c̄p̄j `rcv` b N̄t̄U GB c̄Ųq̄v̄t̄ZB| GB c̄Ųw̄Zi c̄Ųw̄U K̄x̄UB t̄nv̄K, B̄ij̄B t̄nv̄K ev ḡb̄j `B t̄nv̄K| Z̄v̄nt̄j

cRwZ Kx ? cRwZ nj GKwU AvcvZ m`k Rxe-tkYvi tgšij KZg GKK| GB tgšij KZg GKtKi AšfP
m`m`iv GtK Atb`i gta` thšb ev cRbb cŭquvi gva`tg cpj`rcv`b A_ŕ mšvb D`cv`b ev esk ep`x KitZ
mŕlg| GKwU D`vniY t`qv thtZ cvti, Avgiv bvbv aiŕYi B`j t`LtZ cvB, thgb tj sw Bū j, taŕi Bū j, tMtQv
Bū j, eb` Bū j .. BZ`w` | tj sw B`ŕi i gta` cRbtb tj sw Bū j Rbŕte | wKš` tj sw Bū ŕi i mvŕ_ eb` Bū ŕi i
cRbb NUte bv- thšb wŭqv mgvav ntj I mšvb Drcv`b NUte bv| Avi mšvb D`cw`Z ntj I H mšwZiv nte
Abj cv`bkxj cŭY| Mvav I tNvovi wj b RvZ L`Pi bvgK cŭYwU eŬ`v, G Avgiv mevB Rwb| Avgiv Kvŕj v
gvb| B nB Avi tkZKvq nB cw_exi th tKvb AĀtj i bvix-cj`ti thšb wj b Rbŕtbte cpj`rcv`bŕlg gvbe ev
gvbex| ZvB cw_exi mKj gvb| Zvi tPniv Oj tZ, eŕY`ewPĤ hZ %emv`k`B cKwUZ tnvK Giv GKB cRwZi ev
w`wrmR|

weeZŕbi c_ aŕi eBwU m`utK`ŕPvi K_v etj wb cŭtg, Gi tj LK Avgvi Lp KvŕQi gvb| eBwU 8g Aa`vq
Aewa Avg DĤ`wM wbtq wePĤvq avivewKfŕte cKvŕk hZevb nB Ges tmmgq cvEwŕi cŭi GLvŕb tmLvŕb Clr
m`uv`bvi KvRI KtiwQ| bvbv e`vZvi KvŕY tmmgq tj wLKv Ab` cwi`Q`_tj v tkl KitZ cvti wb, dtj
cKvkbvq tQ` cŕo| tm w`K t`tK eBwU cŭZ Avgvi GK aiŕYi ggZv tva KvR KtiŕQ| 8g Aa`vq chš-
tj wLKv AwZ hZŕi mvŕ_ RxeRMtZ wefŕbœcRwZi D`wŕeb I weeZŕ, GK cRwZ t`tK Ab` cRwZi DĖiY Kx
fŕte weeZŕbi ga` w`tq mŕxN`Kvj aŕi NtŭtQ ev NUtZ _vŕK Zvi PgrKvi wPĤ Ztj aŕiŕQ| WiDŕbi Kvj
t`tK weeZŕev` wbtRB tKgb Kti ŭgk AbKŕi t`tK `eĀmbK ZtĖi cwiYZ ntŕtQ tm Qwel cvŕtKi KvŕQ
D`wMwZ ntŕ I tV| weĀvŕbi Ab` kvLv thgb c`v`ŕe`v, Rxew`v, AYRxew`v, fwe`v I Rxevkŕe`v,
cŕZRxew`v BZ`w` kv`iKx fŕte weeZŕev` cŭZŕvq Ae`vb ivLtQ tm wPĤ I cvK tctŕq hvb| 9g Aa`vq ewYŕ
ntŕtQ WiDŕbi Amgvŕ K_v Ő Descent of Man Ő Gi cŭq m`uY`Kvmbx| i`aydwtj i tiKW`t`tK bq,
ŕRtŕvg wekŕtŕbi AvajbK djvdj _wj tK mv_ wbtq Avgv`i gvbe RwiZi wefŕbœcRwZi weKvkv mvaB Kxfŕte
NtŭtQ, Kxfŕte tnvŕgv-m`wctŕtŕbmi ceŕj`ti iv 70-80 nvRvi eQi AvŕM AwŕdKvi DcKj fŕM tŕti Gwkv
BDŕivc gnvŕ`tk Qwiŕq coj Zvi BwZnm Avgv`i we`ŕŕqi DĤ`K Kti | eb`v Avntŕg` Bbtŭj ŕRŭ WŕvBb ZĖi
wbtqI mgvŕj vPbvŕj K GKwU Z`_ wbfP Aa`vq wj tLtQ| me K_v Avcbv v Avgvi gŕ_ t`tKB i bteb ZvŕZv nq
bv| AbMŕ Kti eBwU wKŕb cv K`b Avcbv AtbK ŕauqvŕv tKŕU hŕte, ZLb Avcbv Avi ej teb bv Avgv evbi
t`tK mi vmi GŕmQ| Zte fj teb bv w`uvĀx Avgv`i wKUZg AvZŕq Avi Mw j v mvgv` GKUz`ŕi; Mw j v,
w`uvĀx I gvbe AtbK AtbK Kvj AvŕM GK Awfŕbœc`cj`I t`tK weeZŕbi ga` w`tq AvŕtKi Mw j v, AvŕtKi
gvb| Avi AvŕtKi w`uvĀxZ DcbxZ ntŕtQ| cŕq 60 j ŕ eQi AvŕM w`uvĀx`i t`tK Avgiv weŕQbentŕq
`Zšj weeZŕb GLvŕb Dŕv GŕmQ|

AwfŕRr-dwi`I Avgvi KvŕQi gvb| eBŕqi wefŕbœcwĤ`Q`_tj vi AtbK _tj vB BbŭvŕtŕUi gva`tg Avgvi
AvŕMB cov ntŕtQ| fŕlv tek mvej xj I `^Q| i mvq b kv`j Rŭj mgxKiY _tj v AtbK mnR Kti evOgq Kti
Ztj tQ Zviv| gvŕ KŕqKwU tgšj (element) thgb CHON SP t`tK cŕY mŕoi gj Dc`vb thgb Gwŕtŕv
GwMw, Zv t`tK tŕŭb `Zix Kiv m`e Zv cvŕtKi KvŕQ mhtZŕtj aŕiŕQ Zviv| cŕh½Z GKwU K_v ewj, Avgvi
gtb AvŕQ Avgiv hLb wekŕe`vjŕqi Qvŕ 1954 mvŕj, cŭg Rvbŕvg Avgv`i tKŕgw÷ŕ wKŕŕtKi KvŕQ
BDŕi-wjŕŕi PgKcŕ cixŕŕYi K_v| Avgv`i gvŕS tek `n`P cŕo wŕtŕwQj, ZLb Avgiv eŕSŕwQj th
j`veti ŭwiŕZ cŕY mŕo Kiv m`e ntŕtQ| cŕi Avgv`i AiMwB Kŕtŕgw÷ŕ wKŕŕK Aa`vcK thŕtMk kgP Rvbŕŕ
tNŕU GKw`b Avgv`i Rvŕŕj b th cŕY bq Zte cŕYi th me fŕBŭj %Re Dcvŕŕbi cŕqŕRb nq tmBme
Dcv`vb `Zix Kiv tMtQ| cieZŕKvŕj KvKZvj xqfŕteB nŕtZv, BDŕiv-wjŕvi Drcw`Z AtbK _tj v Gwŕtŕv
GwMŕWi (alanine, glycine, amino butyric acid, aspartic acid, beta alanine etc ..) tiwŕtŕkb
tKŕgw÷ŕ wbtq KvR KtiwQ I vŕUi `kŕKi gvSgwmSŕZ| mŕx gĖj x AvgvŕK gŕd Ki teb e`w³MZ cŕh½ tZvj vq|

112 cŕvi GB eBwU 8wU Aa`vq wef³| cŭg Aa`vq gZ`j I Rxeŕbi mšĀv wbtq Avŕj vPbv Kiv ntŕtQ| cvK
RvŕtZ cvŕ teb gZ`Kx, RxebB ev Kx| tj LKŕq ŕRvi w`tŕtQb cw_extZ cŕYi DŕbŕI i tŕŕb iŕtŕQ i mvwŕbK
Drcw`ZĖi A_ŕ e`ev`x ZĖi| GB ZĖwU bvbv w`K wbtq Zviv wekŕtŕY KtiŕQ 2-5g Aa`vq| 6-8 Aa`vq

ewneitk| c0tYi Dtb#li m#tebv, gnwetkj AbT mfZvi AwZj Ges Zv`i Avgiv cw_exevmx tmB ARvbn
mfZvi wbgfYKvix`i mv#_ Kxfvte μgvMZ tP6v Pwj tq hvrQ Zvi mvdj`-e`Zvi K_v ejv ntqtQ,
c`v_eAvtbi RuUj mgxKiY I ZEj fivμvS-bv Kti| cthzZ Dtaj L Kwi gybexq wPŠv`kfb tKej gvI
fivev`xivB ivRZj Ktiqb GUV wKŠ`wK bq| whi i Rtb# 600 eQi AvtM fvi Zxq e`ev`x `vkK Kwcj
etj wQj b tKvb Akiwvi AvZw bq, c0Y mμo ntqtQ GB awi ItZB Ac0Y-A%Re cAfz t_tK| A%Re Ro t_tK
wK Kti `PZb`gq Rxtai Dm`e nq Zv tevSvZ ZLbKvi Avtbi mxgvq etj qb, 0 th th `e` w tq g` `Zix nq
Zvi tKvbwItZB gv`K kw³ _vtK bv, wKŠ`tm me `e` wgtq mō gt` _vtK gv`KZv 0| GtZv ZLbKvi fvlvi
ivmvwbK clμqvi c0tYi Dm`etei K_vB etj qb Kwcj| PreK I M0K `vkwtKivl AtbtK G aitYi K_v
etj qb| GtK Avgiv ej tZ cwii c0Y mRtbi e`ev`x ZEj|

th mvavi b exgxb cvWKt`i DfItk` eBwU tj Lv ntqtQ Zviv GwU cvV Kijt th AtbK DcKZ nteb GtZ Avgvi
tKvb m#`n tbB| Avgiv th KwIg Dcvtq c0Y mμoi Lp KvQvKwQ Gtm tcsPwQ Zv Rvbn hvq GB eBwU cvV
Kijt |

Awg PvBe eB`Uj eUj cPtii| Avkv Kwi cKvK G e`vcvti wKQyc`tjc tbtb| Avgiv hw` wKQymnvqZv
w`tZ cwii Zv mva`gZ Kiv nte| Avcbt`i Avei I Atkl ab`ev`|

প্রবন্ধটি সুতনী ফন্টে লেখা। এই ফন্টে লেখা প্রবন্ধ অ্যাডোবি অ্যাক্রোব্যট অনেক সময় সাপোর্ট করে না। পাঠকদের
সুতনী ফন্ট ডাউনলোড করার অনুরোধ রইল:

http://www.mukto-mona.com/new_site/mukto-mona/faq_mm.htm#Bangla

মডারেটর।