

wpfoHclep&pi

eLu&J

[8167 - hi ts]

vuawhcefuH MuDuy&wh q&mr u ausmubiylef;tpof;rfn a&;xm;wh cleHgwawuH
MunfyD abe q&mr uH wHwar;aeuwnf;u 'baevuawhcefxJu
aemuqHx&u&r, h ausmif;om; [m urelawm;zp;fyDqHwmuH urelawmf aoaocsmcsmuDuH
obfn;w, V

'gayr, h rotsi ha, mi haqmi fyD ausmubiylef;ay:rfn q&xm;wh &lyaxGaewh
yef;yo kwpyo &U tvsm;vlu;zwyluH qHvevluw, V rvG fob;Asm.. &lu?aA' bmom&yfuH
, MuHrdwm [m urelawm;fuH furelawmf av;E;fwvwd 'lu?ay;vlu;fwmyl qHwmuH tpu
rocbt;/ urelawmf q, hwe;fuH 1984-85 cE;pf;fn atmi;fw/ urelawm&r;svfu
oH&m&piq, h av;rsW/ touarGOrfausmif; bmomwpccl;uH roifayr, h tqHMuDawmh
r [kwfygbt;/ avOnur, fql braA' wHbmwHavmuawmh OiEHfr, fxifwmyl 'gayr, h
urelawmfqHwHau mi;fu;vnf; cy&t;&t;r [kwfw; / Oi fcb; avOnu;fv;fuH avOnuzwMunlawmh
urelawmftr;svf ywDef;usi;rfn bmomE;pfck oH;awvW, V &lu?aA' eY owSA' yg/

usewHath, Physi cseY Clemi strybmom&yawu 10 we;rfn oi;fyDjyVow&U
oabmw&muH urelawmf tMur;fzsi;f em;vnjyV wu?rfn urelawmfoi;fci;fwmu
urelawmfvHOr&ao;wh bmom&yf;st;uH oi;fci;fwm/ oli, fci;fwpa, mu;fuawmh
braA' avOnuzH tMu;ay;w, V urelawmfro;ao;wh bmom&yayr, h ausmu;fwHawv
ausmu;fwmi;fawv ajrMuDawGt;al;umi; qHwmeY urelawmf pdv;f;oi;fm;cbt;/ ysi;fw, Asm/
b, ES f ajrMuD;ta;umi;f; oi;f;rfnqHawmh uH fmyl awGMunlawmh

owSA' uvnf; owUgawGt;al;umi;f; qHawmh urelawmpdv;f;oi;fm; jye;fbt;/ Ou;fwH
yp;ef;wH zm;wH ig;wHqHw;pm; zly;au mi;fw;wm/ oi;fzH usufzH raumi;f;bt;vH
urelawmfxi;fw, V &lu?aA' uawmh opyi;fawGt;al;umi;fwH urelawmf
opyi;fawv;ye;fyD;fawv toD;TEawuH csp;fw, Asm/ owH;ta;umi;f; o&Mum;&rfn
b, h avmu;f;ay;mp&maumi;f;rv/ b, h avmu;f; pdv;f;cr;f;omp&maumi;f;rv/

uroMuD;pf;ve;f;zi; vluw, fr [kwfw; / 'geY urelawmf&lu?aA' uH avOnu;fv;fuH
urelawmfar*smuH urelawmf csp;fy;lu wp;f;st;As/ en;f;en;f;awmh al;umi;fw;maygH

yxrEprfuwnf;u urefawmfrn;jyqllvm odvlu&wm/ opyi fawG m
awmawm&lywmyAsm/ rslpdlvawG rslaygitawGvnt; rsm;ygh opyifq&lf
twlwykicllvm/ ocn;wmy/ usu&rsv&cuwv emrnawG rslpdlvawG tokluawG
q&&lyaxGwh tyi&ll op&n&MumawG &lu&MumawG yeyGtey tolawGvnt;
jy? prstAs/ awmawmhu &lyaxGw, v

wploum rMunbl ulupm;vmwh ocn;odutp urefawmhtwGuf jy? zpaw, v
cOaygi&Guey refusnt;&Gufvnt; 'lu?ay;w, v w&kwplum;yG c&n ca?
Es f;qyefawG urefawmhu tyruqllawG ru&apawmhwmy/

xrifpm;wll frn ocn;odulu jyd i& hawh urefawmhu taruar;w, v [h.&Dif
ei f&mjzpaewmvl.wl urefawmhmrs jyefrajzbl vufxlu ocn;odu rlet;ret;el
wtm;Og;pm;ypvlulw, v taru em;rvnfygbt;/ ocn;od [m tolawG&frn a&"mwf
78.5% ygw, fqlwma&m? oltpawnylu csuwl fywvntent;qlwma&m? ocn;od [m
olqfrn & hawh a&"mwawGul b, f&ket;ortw, f qlwma&m tarrodygbt;/
ocn;odqlwm i, fi, fuwnf;u wplvli g;jym;el apsxlu 0, f&wv wpl&mqllwmy/
tarodvmyg/

urefawmhtazel taru 10 wefratmi Muygbt;/ 'dawmh urefawmhu entent;
txiMudMuw, faygAsm/ 'gallumih wu?frn ocn;odtallumif oi&wmwll cOaygi&Guey
rlefnif? refusnt;&GufawGtallumif oi&wmwll urefawm b, fawmrs rajymbt;/
tarob&lf velyd atmcsi&tmr, v cluxh&Gufef &, csi vnt; &, frny/

ulefulebjymr, 'Asm.../ &lu?aA' allumih urefawmfrn & icelwh om, mrv;awmif
wplcgwplcgysulw, v aumirav;awG yefawlbawG yefvmwmmwll
& ilbwfrn x&vmwmmwll aw&lf urefawm rMunE;Eh bl csuCSI f, pdw&lyfo&awmhwmy/
tj yeyGtey m yG tcsy b, Epsym? & lypG lb, Epscm? yG zwawG wnylu
puDh fywv? wplcjm;vm? tem;n&vm? tem;n&vm;... ponjzih
ocn;ocn;awGaerdlwmu.../

ref;uav;awG qlwmuvnt; yefwprst r [lwf wprst;awmh MuluwvMwmy/
b, yef;ulfrn rMulu bl; q&lf olwul lowl E;n&wll *f&wv

ref,uav;r [kwawmlot;vtrsm; xi faelluovm; robot/
urelawmli , lsi f;wpa, mufuawmh ref,uav;awG yef,Muluw, fqlvm pdwSA' eY
qllw, lw/ olwMuluw h yef,ul MunjyD olwplwtajctaeu cetrsef,vll &owl

Oyrm... ca&yef,uulu&if tptvef,Mudw, / tm;i, lww, ? cpm;csuf
vllSufww, fygAsm/ Es f;qyef,uq&if jywom;w, ? &&ifw, ? xufruw, fyg/
ul plwDipm;wh ref,uav;Eplouwh yef,uMunjyD b, MDi&r, fqlvm
awGv&w, fyg/ tvum;ygAsm... urelawmuawmh ref,uav;awG m olwu
Et;nlwobmxm;&wmu jycsi l olwplwul, Olwfwmu obmatmi l
yef,wprst;ul rjzpraelluufx m;wmvyl xiw, /

urelawmuawmh &nfpm;xm&r, fql&if b, fyerS rMuluw
ref,uav;ulyl xm;csi w, / ca&yef,Muluw h ref,uav;eY &nfpm;jzp&if ca&yef [m
ajcmuabobm;wh txd arTwm op?Dvl r [kwlot/ olr&w h telq&Mumi h bnm
om;&S f;jyae&if jy? urfny/ Munfvnf, MunEt;&r h r [kwlot;av.../

tclawmh tJjy? ar*sm? 'lu?aa' ar*smu jyDawmh rnygAsm/ urelawmu
aemuqMepuawmif a&muabeyj/ aemuqMepa&muabawmh q&wlyawG ytu?
xlu&wh t okluawG ytu? y&lyvmwmyl x;tjcm;wmyg/ 'gayr, h 'gawG m aemuqMvl
okm;&awmh plwoulop&awmh &wmayg/

]]clnygwif wplolcelp&plqlvm b, bvl}}

urelawmf &luMumrhwpluul jyDatmi fquif&if clwul ypcjyD plwysufvufysuf
vufn?axmi&w, / 'clnygwif? wpcg jye&S f;&ODr, / plwysufw, fAsm/
vufawvlywif, 'jy? h urelawmf tjr&iql &? &S f;jy&awmh awmlawmf ji Dai Daejy/
'Dup?clwnf;ul rMumcP jyeajym&w, fqlvm ul eY tqufzprvl aumirav;&D
Zmwvrf;ul tMudMufjyeajym&ovl b, r h t&om&E r h v/

]]ul. vufn?axmiraeY ul lawmf. ausmifom;uwf, jyD.. 'Dulvm.. bmjzplv ..
.rifclnygwif tJgjzpa&wv}}

urelawmfvntf tem;awzbnjyð aysmpðewh ausmifom;uwfuð , jyð incharge q&mrclul
ofn;&w, / ãbe wpccku ausmifolaw(uawmh jyðjyð use&pcav&w/ urelawmf 'gull
&sf;&v&f;awmh olwu oðelujyðv/ q&mr ru ryðrojzpaewh ausmifom;uwfu
"mwyléy urelawmrsuEñul aocsmcsm wluMunfw, / "mwylu ryðawmhayr, h
urelawmrsuEñulawmh azmfay;rbnyg/ q&mr urelawmfuð vufawvpm;xð vlyfwvl
r[kwfbl;qlv m aocsmofn;awmh ar;jyefw, /

}}ul. bmjzpfv.}}

urelawmf cE?muð ftaetxm;uð avðncjyð oububomom xð &w, / [kwf, fav
q&mr em;vnátmif ajym&r, fq&f Murnrñqðawmh cE?muð ful &ðooréy
wif;xð fxm;&if ajcaxmuawfðomawg usOr, fqlv m urelawmf tawðtM&ðyðom;.../

}}[kwlygw, f tjd wpcðc&pf ðlygwéy 'Dtcef,xulð a&muvmwmu...}}

+++

pdwDipm;p&m oðyfraumifvayr, h q&mrulð ajymovr [kwfbl tpuaejyðawmhyl
ciAsm;wðulð ajymjyr, fAsm.../ 'grs tð ðlygwéy urelawmf quf lu?a&mu&yðulð
uð fcsifpmjyð em;vnf;Eð frñ/ uð fcsifpm em;vnfw, fqlv MðMðus, fus, fawmh
r[kwfS;gblt/ ausmifom;awg Mðvð rMð&bl tcuttcl jzpc&yðuav;
wpcckwnf;yg/

aemuqEðausmifawg jyezG ðuawmh urelawmfuawmh awmfawmfaymðawmygy/ ausmif;uð
reufvifwmeý a&muýð naerñcsypurs tðfulð jyefwmyg/
urelawmf t wef;çel u 12;15rs pwmyg/ 'gayr, h urelawmfuawmh reufvif;uwnfu
vmwmy/ reufci far*srñvntf urelawmfvðvqg oli , fcsifawg &ðewmuð/
wwð Eðfuwnfu urelawmfu 'ðyð vmaeusav/ reufci; tðfrñae&&if
wprñtyAsm.. raewwblt/ ysi;faewwfw, / vuzun&ñqðf xð fvmawmf ausmif;xu
qð frñ xð &rs t&omawðovly/

'g.. bmaMumi fvbqawmh ausmitrhu jyi fqi jzdvrtxm;jyD vWvvyfaysm&I faewh
ausmitobawG &hevM xi&wmy/ 'xubaumi fwh aumucsur&awmhMom
'gubajym&wmyg/ ureawmfittwUawmh olw&hevnt odyrxtygbt/ &yfuUfxlu
taMumifobewh aumifrav;awU Mun&wmxupm&ifawmh &efulewu?fxlu
aumifrav;awU Mun&wm yhaumifygw, V ureawmfqUwmu ausmitu 'Dv
tapmMuDuwnfu vmjyD aemufusrjyefvm [m aemufqMEpa&muabewh
ureawmfoli , fsi fawG vkyovU vluvkyfwmr [kwbt;vU qUvtsi fvmgy/

at;uluU at;ausm? rUjriatmi? aumifEM? xefaz? cici faomeY vMwUawmh
aemufqMEpa ausmituDeY c&cgedrU ausmituU
&orUvmluwmwU ureawmfwxlu touftMuDqU ausmitom; at;uluUq&if
t"dywvrfab;rn ikwkwkxU f. bDES fobibefrMuDuU aq;ayghvrtzhai ;&if
rMumcP vUvUfaqsaqG nntfwwU, V

]]aemuEpf 'DtceUq&if igwUtm;vU t"dywvrf?
*syfqi eY bDES fobifU c&awmhrygvM;}} opum;qUawmh oli , fsi fawGtm;vU
jirfob;Muw, As/ tvum;ygAm/ olrm;awGvUvU wmoft& vluvUfae&wm
obmOrusygbt/ e, fuae tqmifmwuUwh ausmitom;awG 'Majym&ifawmh ureawmf
tjyprajymygbt/ 'g entent vucUw&ao;w, V ureawmfvnt
pUvayguaygu&vmeY pUvU&vUvUwU f ajymvluU, V

]]tvum;Asm.. ci Asm;aewh oufUurefey &efulewu?fu tvUqUum&if
av;q, fi g;repygh vmvU&aewmyl bmc&rhuV}}

opum;rn eparsmrS fvuob;wh oli , fsi fawU ureawmfuU rausreyey
ueluUmuw, V cpm;rh&vUwU ausmitom;ryDowl.wU ureawmfUtm;vU
&efulefrU {&d mxrh aemuwUawfyqawmh tm;vU a'guemuwmaygh

]]jyefvm&ifawmh &wmaygh [. 'gayr, fi cpm;rlu b, fwrvU tck [mu..igwUausni?
igwU*syfqi? aemufu&if igwUausni? b, f [kwawmhvU}}

wpa, muivpwayguif Oit&efawawmef urelawmvnf; qurajymawmygbl/ tvum;..
wu?blef,El? armi peDif;w? Ow?law&, ? ut?Zmey x;t?hoif o?si;law&, feY
a&maxGjy? c?m;ritwku? tppivlyf v?f;&wm &, p&mMuB/ 'gayr, h MuB?Mus, fus, f
rgefusi fsi fwmef olw?ajymov? trSv?w&'mwy?lawG bmawG *syqifeY
b?ES fobifa&?r?n &?u?v?lygw, / ausmu?om;x? ?eY tcefa&?w?r?n ? te pen
aw?eY pma&;jy? vuf?sv?awG bmawG x?v?lygw, /

urelawmfuom &, fsi faewm ausmu?om;x? ?eY vuf?sv?x?lawmh ae&mv?w?r
r&?bavmu?ygy/ wu, fu? wpa?usmif;v? trSv?w& jzpa?muovm;awmi fro?bl/ 'geY
v?v?u "m;x?w?jy? urelawmfv?w?a&? a&;o?n;Muwh v?aw&? pma?w?ut jcp?y?pw, /
urelawmf bmrS rajymawmygbl/ v?q?w?m 'v?w?j r[kw?vm;/

t?D c?m;csu?qu &c?w?h auseyp&maumif;wh tcsufuav;uawmh urelawmfawmfv?
wpa?v?w? wpa, mu?w?wpa, mu? t&i?E?aw?uxuf y?c?p?vm? y?w?h, mZ?O?w?m?
on?c?v?m?Muwmy/ oabmxm;u?v?w?h?tcgawG q?&i?v?nf,]]aemu?q?E?y?u?n?}}
q?jy?tav?w?ay;Mu? v?u?v?sm?u?w, / ol? [mo?awmh b, f?w?v?w?w?ef/

urelawmfuawmh v?r?r, f?w?if *syqifeY b?ES fobifxuf jrur?ef,omuz?u
telw?at;u?y? y?v?f?c?si?w, / telw?at;u urelawmfu? c?i?w, / y?u?iq?h?y?gvnf
vuz?u&n?aw?bmawG talu?gaomu?v?w?, ?v/ jy?w?mh ausmif;om;aw?Gay:
t?r?jy?w?jy? c?v?w?w?w?w?h ol?su?E?u? urelawmf?oabmusw, ?sm/

xm;y?gawmh../ urelawmf?eY?w?u?p?a&mu?E?l?bl; jzpa?ew, / aemu?q?E?r?n urelawmfv?
&?u?a'A'ar*smu r?l?em Paper w?p?c?c?y?gw, / ow?šA' eY "mw?w?A' y?g/ ow?šA', &?if
"mw?w?A' , p&mr?v?bl; / tr?w?awmh r?l?em bmy?l, l, l B.sc (Botany) ygy/ final r?n
usu?r, h pma?G&w?h oabmy?l &?w?myg/ ausmif;om;awmfawm?r?sm;rsn;u Chem?stry y?
r?l?em, Muw, / Zoo u usu?w?m y?w?y?x?w?mu? / 'gayr, h cu?w?mu Chem?stry
r?l?em ausmif;om;u? Xmeu ta, uf 150 y?l Oif?c?jy?kw, / wwd E?su Chem?stry
&r?sv?w?, f.. urelawmfv?w?w?i?w?h av?w?u?v?w?h, fu? Mun?jy?c?w?m/ 'Du?p?awmh urelawmf?
oli, f?si?lawG oabmxm; w?Mu?y?gw, / tm;v?w? Chem?stry y?l av?w?u?Muw, /
tm;v?w?v?nf &?Mu?y?gw, /

'gayr, h cu?w?mu urelawmfu ausmif;rt?y&ao;bl; / bma?Mumi h rty?jz?pw?mv?q?w?mu
urelawmfu aemu?q?E?r?n tv?w?Di?ae?jy? wwd E?f ajz?jy?jy?c?si?f Oif?w?myg/

uReawmfxnhaiculi r, Mubt/ uReawm&SfwuUvnt; vufrcbt/ uReawmfqDu
yLuqH &if owM[m oli, csi faumif; rybawmbt;vU owUuU f owM
ch lxm;Muyby:w, / ' Dup?csp&maumif;w, M ajym&rinxuf uReawmfuU ai @Mu;up?
ywboufyU owp&ifcufwUf; wpcgwnt; owrswvUuw, M uReawmcbm;&w, /
uReawmf yLuqHkw&SfwmeU owUyUawU jyl;jyl;ysmysmeU uReawmfuU
twifqMuawmhvmy/ b, M rS ajymvU&bt/ &efzpfvUrcg jzpaygav/ ' gayr, h
yLuqHawmh b, awmh rS tay;rcMubt/

uReawmfyluqH ajcmu&m (7)&uavmfu r&vUuw owUtrifrn wpbouM
qif&bm;jzpfon;awmhvmy/ uReawmfuU ulhVmxuf owUu uReawmbli, csi faumif;
jzpygw, qUwmuU ai @ajcmu&meU t0, chUu&ovUy/ uReawmcbm;&w, / ajym&ifawmh
&Ufwmaygav/ uReawmcbm;&wawmh tr&fy/

ai @ofawmhvnt; up?&ym;/ uReawmfU ar*smu uxduqon;? toem;cbm jyelwi?
Xmeu axmucbtsuf, / ausmifom;a&&muU ajy;? ai @ofzU ai @of;Xmeu axmucbm, /
vluZwZwarma&my/ ausmifrtymU q, csu&Uuc&wmxufU yi fyef;ygw, / wu?&U
t&omaygav/

tU vUbiawG tm;vUof;jyU 10 &uavmuUumawmh rSyl Franer ausmifom;awUetwU
uReawmcblygwU xUvUmw, / apmapmpUyU yUba @of&urfn of&if xUphUwUf;
jyepU, h clywUrn &rnjzpayr, h uReawmfu aemufusawmh clygwU aemuUqU 1378
jzpfon;w, / ' awmh uReawmfu Zoo rU emawG wu&wh tcef;rn clygwU
a&muawemaygU

tU rUwif uReawmfu oli, csi fawU rU em Chemistry avUufxm;awmh cufuleUw/
clygwUwUf; qU ifawmh uReawmfu uReawmtcef; AE-15 rn twefon;wu?
Chemistry tcef;urS Chemistry oi wUrcf;rn vmwUaygav/ ' gayr, h
wu?&Uwmu vUwvyygw, / oi&Uvnt; tm;vU ' guUy/ n?biwmgUawmh
oli, csi fawUetwU \$-238 rnyU uReawmf twefuwUw, / vuawUurSom
Chemistry vmvUy&wmgUawmh (1 to 149) ausmifom;awUetwU uReawmcblygwU
1378 MuU &UawemvmaygU Botany ar*smu Chemistry rU em, &if clygwU
150 u rasmUbt;av/ uReawmfuawmh 1378 y/

urelawm&Sfjywmawlu cy&ly&lyayr, h in charge q&mr uawmh urelawmfwll
ar*moabme! ausmit; xlpawlu oaeavawmh em; vnlygw, / 'gayr, h
tjcm; q&mr awlu &Sfjywe; uvly/ tclq&mr&ll rsuEbirivnt; pdv&lyw/ trit&mu
awlae&ygw, /

]jat;.. eifu wjcm; ausmit; om; aw&xuf &ly&rS auseyfwmaygh [kwlv m;}}

]urelawmfr&n&G fygbt; q&mr/ ol[mol jzplwmyg}}

[kwlv, lav/ urelawmqllwlaumifu 'Mlv&vmawG
rbi; wmwawG jzplaeu r [kwlv m;/ q&mr uawmh em; rvnlygbt;/ 'Mlv&st wpcgrS
rawGz; aumi f? pdv&lyawmif; nnt; nnt; nlnlvlyaw, / q&mqllwmu tpdtp0fwus
jzplwmy/ Muluw, lqllw urelawmem; vnlygw, / rv tpdtp0fuae vbi; wme!
rausreyjzplwfwmy/ ref; uav; q&mr qlawmh yllqllwmaygh/ t! laeu
urelawmxiwltwllfygy/ nae av; em&lausmfrS urelawmfwpa, muwnt;
vuawGcef; xlu xlu&w, / urelawmfwpa, muwnt; ull apmi lae&whi abe q&mr
cleuar; wh in charge q&mr Epa, muawmh rausreyrsu lawe!
trswjrefrefcpay; jyD ull lawmi Muluw&ll ajymw, / urelawmvnt;
jye&S fraeawmlygbt;/ olwar; wmu! aoaocsmajzae&vlom Mumwmyg/ wu, lqllif
urelawmh abe rbi urelawmi yllqllw tjqllw/

ausmit; ylvzlvw/ wplv urelawmh aysm&T&Tf jzwfoef&ygw, / t!
urelawmli, lcsi fawG tvlt&awmh vrfaqGqGwyspbiaygAsm/ urelawmfuawmh t! M
vrfae&wmu! aysmw, lac: rvm; y/

wu?u reubi; ql awmlawmfaymzll aumi; ygw, / aumi trav; awlvnt;
tOwftpm; top! oeycg; rdwuyf top! Elwcrf; elttopawel &, M atmv yauul
tlypkvuf wazmuazmuif azmu&if; tvum; &, laellwmy/ oaumikom; awlvnt;
t! gu! atmlu? Munlu? vsfp; lue! reubuftwef; awG qif; cgebel
naebuftwef; awG wufcgebl yllrsm; jyD aysmzll taumif; qly/ vll A&B&D
ullawm? t"dywvrf? aibof; Xmea&S *syqib; t! lae&mrbi tlypkvuf
ausmit; om; awGsnfy/ uilwif; qlvnt; jynlv xllp&mwmi f
r&wwlbt;/

nae 3 em&avmuifq ausmitu jirfyd wlvofn;wwlv, / reucif; ausmitom;awG
r&awmto;u// aumirav;awlvn; ropawmto;v// wpreupm a mitofn;wmu//
tqllqu vln atmf &, bawG wlvofn;wh ausmity&OPxju
opyiMuaway;u OmbonyAs/

jirbouawh ausmitof; tus, MuDxhn tJD Ombony wpcgwpcg xatmwh
ypOf;&ifu bawG Mum;&wm vfp&mluBy/ uifwfrnqvnt ausmitom;
oyfr&awmto;aygAsm/ zlvmaqmzKmeu xlvlu&if jri&wh a&piMuDvnt;
wlvwqvmf a&awvMusv tcef;vaww&hnvnt twawu jirbouMlayg/

tJ vlvq&ifawmh ureawmabmf gawG ajymov ausmitu vfp&maumifvmw, /
cicibomtu]]cs, &yi&tmuf aemufwpcgu}} qvwh pft;xqf bcsif;u//
wlvwnnf;w, / at;uluuvnt jirfv xefazu vuzunfu//
tus&nxyxnm bmyzpzpf vfr, q&ifawmh tJ vlvawu jyevf;v&ygw, /

tJ vlvfr&ifejl pmar;yajz&w, /

pmar;yusawmh celygwelyl vplvmqawmh ureawmh wpolicep&sfu ureawmtu//
acsmucawmhvmy/ ureawmtu oli, csi fawwelyy RC xhn ajz&w, / wpEspv//
ureawmtwef; AE-15 rn rwubli oli, csi fawwely ofn;wuhawmqawmh eab;em;u
vawu ureawmely oyirot;/ vprfawcsnf;/

RC xhn ausmitom; 900 ausmf ajz&ygw, /

ureawmtwawmh tm;v// oprfawcsnf;/ jzpaew, / olwttm;vlu Zoo
rlemawav/ bmyzpzpf pmar;yqlvmu ylvstjywmw// label wpcEspck
axmifywmw// yefyolemrf ar;wmlawmh q&mrvp&if ausmitom;wlf vlyluwmy//
wpEspv// twlvuvmwlvwlvcsif; tqibjyMuayr, h ureawmtu b, folqu
ar;&refrot;/ ureawmtu oifuyd wpa, muwnf; oprfawGtv, f
a&muofn;wmu// awmlawmtu 'lu?a&mufigw, /

tJ Dt xAsm... urelawmf ab;csif, Dfuswh aumifrav; pmar;yajzwmu
awmawmpdwysuzH aumifw, fAsm/ aumifom;oufwr; wpav(oufM
tJ Dvref;uav;r; wpcgrS rMuz;bt;/ olu olusuvmwh pmaw(ut jye&w
jyefajymMunfy) ajzaewmu/

]]ul .. OwrefawGtaMumify) ajzawmh, f.. Owref. bmv..? tif.. Owrefonf
yefyG kwpyG n tzHst;yt;t*fyHfjzpon/ jyDawmh bmv? tif.. ?ifwH. ?ifwHnf
Owreftrf. Owreftrfu [H.ojy) Antler sac .. .[kwf, ? Antler sac xkwf
&H uon/ aemufyDawmh .. araejyefyD tif.. [H[mav... Munt. aococmcsm
usufxm;&ufom;ef albmf.ojy) Angi operms [kwf, ? yefyG kaom tyifsm;
Angi operms wf Owrefublaom}}

oltoluvnf; wHwHr [kw? wpiuH ka& Mum;&H uf enfenfus, kaawmh ut fva&..
oleab;rH ajz&wm &t;csi fczpvmw, / pmar;yajzwmu ut pdwut;av;elut f
at;at;aq;aq; ajz&wmr;tr [kwfm;/ vobH pum;ajymvuf pmoleY &wvHufey
jzpaewh oltolab;rH urelawmf b, fH S pmar;yajzvH r&awmhvmey q&mr
jzwvmwawDawmh &yfy) tusttaMumifajym wH &w, /

]] [kwf, f q&mr vnf; Mum;w, / wdwvDvHajzr;aygH &wvcsi &if pdwfx;lyl &wvHajzav}}

]]ordu tJ Dvly) ajzwww, f q&mr? r [kw&if rajzwwvbt;/ ordtolu
wHwHav;yg}}

aumifrav;u bmrS [kwvmut jy? fivHmqH oabmey urelawmH rel;ref;wDwD
pH Munt;fajymw, / oltavhtusi qawmh urelawmf tm;emoH;wmawmh trsfy/
'gayr, h rwwEH fawmhbt;/ wH fvnf;jyDaejyD q&mr uawmh rsuEbcywi fwi feY
tolKurajz&bt;vH wm;jrpfy) x(ufon;w, /

]]tvum; ZZmaMumify) ref;rqelwauimi? ut fbmom ajzwmuH oufouf
vHsm;pm;&wmut remvHvm &lyfulu}}

aumi frav;u pmqufrajzbl urelawmhuu rausreyfel ajymaew, / urelawmhuu
pmr&wmmw olqu ar;csifwmuu ar;r&v , lwrmwmmw rql fwmaw&vnt;
ajymw&vnt ygvmmw, / pmar;ycef;qlawmh &ejzpluz &stjyzuvnt; rvG fqlawmh
urelawmhuu tm;emwma&m? &suwma&me! jirfae&wmaygh olajymovhu urelawmhuu
pmoyr&wmmw tr&yl/ atmirsw&atmir renf&haj&w, / oltohu cPyl
wlvfwmyg/ jydwmel pore w gymsperms w Bryophytes w jyejzplwmy/
urelawmhuu olu! tm;emjy xylrajymawmygbt/ Mulvrv&v&aj&w, /

aemuivpael pmar;ycef;xluu Oicgedawmh t! aumi frav;u urelawmhuu ar;ai ghlyd
ololi, csifawhuu jyw, / urelawmhuu tm;emjy rotsi h, mi hqmi h&eygw, /
ololi, csifawhuu jylw, / ul. b, m/v/ eiflu? a&mu h&eyd [lwvm;..q/vh
t"y? , fqlwm usefaoy!

urelawmhuu t! v! pdvqif&Muphryl English & f ar*sm paper jzplwh 412, 411,
413, 414 awluu aj&w, / aemuivpael wplbmomy! urelawmhuu, / urelawmhuu
'lu?ay;chw Chemistry rih&av/ oli, csifawhuu vuzub&niql x! &if &wh pot
awg teduyMun&if iupluh upluh RC h
xluu a&mu h&awmh urelawmhuu t! tm;oi h&w, /

RC h! Muu wlvw

aumifom; wpa, mufr&ubt/

bmrsn;rn; , Gfygvthlyd pu?wmlawmrsn;rn; urelawmhuu mifyd todwvob;w, /
t! dtcehn urelawmhuu vsfar;vluw to h mih urelawmhuu to diwmm/ chlygw
wplwlep&pu rifvm;..w

urelawmhuu vsfar;wh q&mr&D rsuEh [m em;rvnjci? &maxjci? a'goxujci?
pdvysujci?awhuu tjynly/ urelawmhuu uref;uwef [lwv, m! ajzyd Muntvluawmh
t! q&mr aemu h&w x! h&ewh q&mr awluu aw&w, / tm;v!
ajcmufq, h v;a, muvhw

'BawmhrS uReawmf csuksif; oabmaygujyD em;vnlw, / Botany ar*smwlayr, h RC
hl xhfr uReawmfettwl ajzwh ausnif;om;awGtm;vlu Zoo rll emawlav/
Chemistry rll emul ajzwhlu uReawmfwpa, mufyl &Bwm r[kwlvn;/ Chemistry
rll emu t&ijazluwmqhawmh Zoo rll emorm;awG wpa, mufS 'Bairvmlubt;/
tfrfr pmusuaemurfraygh

q&mr ajcmufq, lav;a, mufu wpa, mufwplaygul uReawmfu ll Oh f; jydajymluw, /
uReawmfvnt; bmrS rajymawmygbt;/ tlijyD eDpy&mcfrfr xll cswlvurfw, /

]]rif Chemistry rll emq&if bmjzpfvll celygwfu wplollcep&pf jzpa&wmv}}

'Dwpcgawmh uReawmf twllkaj&w, / q&mrubm tptqll &S f; jya&if uReawmf
pmar;yawmf ajzce&rfr [kwlvb;/

]]uReawmf Chemistry rll em av(oufxm;jyD ausnif;tylvw aemufusvlyg}}

]]at;.. aumifw, f MulyhMuzlaygiawmf/ wlvnt; ausnif;om;vly? q&mr vlylvwm
'grst; &lvfr&bt;/ awmfawmf lu?ay; odv;}}

]]q&mrwu bmjzpfvll 'Bavmuftrsm;MuD}}

]] [h.. 'Dtcefrfr ajzr, h ausnif;om;&Bewm wlvswlu b, jzkwlvrv] / eilamumi h
odv;/ em;rS rem;&wm/ oluyj ajym&w, &B;o;}}

vufaxmufuxdu q&mrMuD uReawmfu ll Muf; ygw, / t' Dtcefrfrlyl Bel oh
pMum;w, / trefq&ifawmh Bel oMum;&if rwlvwy&y? q&mrwlu
ar;cef;pm&Cufawvlu? &jyDwh ausnif;om;u xll jyD uref;uwet; pm&Cufulzw?
usufxm;wmawG pot awG yg&lvn; txdlwvveMunh t' B; jzpf&rm/ 'g [m
pmar;ycef;&ll &elvy pmar;ycef;&ll &icelofaygAsm/ uReawmf t; jzpfuawmh
t' B; jzprvmygbt;/ uReawmf rwlvvnt; r&yfbt;/ bmvly&r&fvnt; robt;/

urelawmfuul rsufvkljyl; aMumi faMumi f jylk pbd pdvDi kvpm; eY Ohi fMunfaeMwvhi q&mr
i, fi, fuav; awMum; rhi 'lu? a& muhaewmyl odw, V

q&mrwpa, mufu cswlydvixm; whi pmtdvft nluEi jyd ar; cef; pm& luivp& luful xlvjyd
at; at; aq; aq; yl vsfay; w, V aemuif q&mrwpa, mufu tajzpm& luivmay; w, V
urelawmfuul ftvlu urelawmfuul b; u ch; y: rhiyg/ 'gayr, hi q&mrwpa bmrS
rajymygbt;/ [kvw, fav? rsufvkl wp& mEpiq, & spvkatmufhi urelawmfuul ftvlu
vg tajzvnf; bmvlym & rhi rlvnf;/

urelawmf ar; cef; urelawmf rzvEi fbi aigi jyd xlvhaerw, V chtvwaw&, f RC hi & l
wlvqdvir&, fuul avluu; aerw, V q&mrwpa [hem; wptz 'hem; wptz xlvjyd
urelawmfuul rhi; riul Munfaellu, V rha& gpmtylvlu xlvvhi pmtylvpftlyemrnfuul
csufsi; ow& ygw, V a' guivm oef; xef; a& whi] rhi; 'lu? elri; } wv

q&mrwpa, mufu ajzav bmvlyhaewmvl qhwmrS urelawmf pm& luful aumuunhyd
& wltyl hawluul Mulkpm; jyd ajz&w, V Mulkpm; &w, fqlvm pmul r [kvlygbt;/
pmar; yajzzuul yg/ urelawmfuul xh rhi pmar; yajz&w, fuul rxilbt; Asm/ pmar; yajz&wvhi
mood eY t& om bmrSul r& bt; jzpaewm/

pma& & if armunivlu& if chtvwaw rhi tyvz xlv & if pum; ajymaelluwhi q&mrwpa
av; ig; a, muivpztuul awlae&w, V th, f ul hvba.. q&mrwpa, mufu qd
Elwcrf; hawG bawhawi rS qhaeao; oAs/ urelawmfai; wmuul awluo; awmh t! D wls
& sufo; yha; w, V rsuEi muhedyd] bmmunivmvl ul fomom ajzav } vlv vsva
mufw, V

em& Duavmuf a& mufo; whi xd urelawmfuul swpyk riydao; bt; jzpaew, V t! D tce rhi
urelawmfuul & lu? aA' ygarmu? a' guivmwi rhi eY q&mrwpa RC hi tjiivr; ul
OivmMw, V ygarmu; ybhu at; at; aq; aq; oulawmfuul fom
acgifi hlvluuvmvmyg/ wjcm; tcef; awluul ppaq; jyd RC hi ul jzwjyd
[buftcef; awluul o; ppfrv RC hi xlv Oivmwhi ylv; yg/

bmaMumi h urelawmf use; aoajymEi fvmv qhwmh RC xh rhi q&mrwpa trsm; luul
awlvlu& awmh thojyd rsufvkljyl; o; wv urelawmf aoaocmcsuul rhi fvlvlyg/

ygarmu?u em;rvnf[eel rsubarhiMuKvjy) tcef,xLu Oifvmygw, / q&mraw&vntf
rwfvy&yMuaygav/

tcef incharge vuaxmufuxdu q&mru ygarmu?em;u ohi;jy) wfw
&Sfjy[ewlygw, / ureawmfu t m;v Ohi;Munhaeluyku awmawmfu
'lu?a&muw, Asm/ ygarmu?u em;vniohi; [eel ureawmfu jykjy) acgit, rf&it
a&muvmw, /

]ajzEh &Jv m; wyni tit...rif t jzpluvntuhi; [m;.. [m;... [m;}}

ureawmfajzvinu i Mun&ifajymawmh ureawmfvntf rwfvy&y&ygw, / 'gayr, h
bmrS jyeirajymjzplb;/ ygarmu?u ureawmfychu ykw&it oujyifcs&it
cP&yhaeo;w, / jydawmrS ajzajz wyni atmihnyguhi v t m;ay;jy)
xluohi;w, /

ygarmu?u f wlu t m;ay;ohi;wmqhawmh *Pif, p&MuDayg/ 'gayr, h t] Dtcsefshawmh
rEfxjy) bmuirS owr&EhfygblAsm/ ygarmu?vntf xluohi;jy)v ohyrMumbt
q&mraw&vntf ig;a, muwplw! ajcuba, muwptze! xluohi;vluvm tcef,xrh
&pa, mu! uha, muavmuyj useawmfv, / trshawmh 'gawmif rsm;aeao;wmyg/
wpa, mu&e&it ureawmfwuf vavmuygw, / q&mrawG awmawmfentohi;v
ureawmfvntf pmententajzvin &vmw, /

pmar;yitcef wpef&DhavmuftMumrhi jrufef,omuzdu pm;y&luav;
viyef,uav;u i a&muvmjy) vuzun&naumzle! aygirhaxmywlokvwawG vmcsw, /
ureawmfu apmi haeluw h q&mrawu ureawmf a&D b, fbulo&clausmrhi
ajcuba, mu! taemu! nmburhi Epa, muel ureawmh cyi, ef, ef nmbufu clrh
wpa, mu/yg/ t] q&mru rsvrsw&& q&mcspon&u yef;reao Ow?kpmtylu
zwawew, /

tcef,xLu a&muvmw vuzun&nehu artaewmy/ ureawmpwixrh b, mrs
rxef,Eh bl vuzun&naomufsi vmw, / ureawmrstodygao;w, / 'gayr, h
r&b;Asm/ omrepmar;yitcef&u almuvmvethel vuzun&nehu ureawmpwDi p m;rh

r [kwfot/ 'gayr, fi tclawmh r&bt;Asn/ wptouirfi 'lvptcgavmuif
vuзу&n&omufsi p&w/ jyi f; xefwm wptcgrS rMuzt; bt;/

urefawmfel o&ewh pm; y&kuav; u q&mr awg trsm; Mu&ey h&l x&h&fi pmar; y&ajzaewh
urefawmfu& w&t&w& ai; aew, / ovnf; ausmf; x&u pm; y&ku&awmh pmar; y&q&w&w
' y&h& [kwfot; q&w&w o&y&ygw, / urefawmf p&w&f x&ef; E&h& awmh&w&mf q&mr u&w
awmf; q&w, /

]]q&mr urefawmf vuзу&n&omufsi f&w, }}

vuзу&n&f&awg v&f; ay; aewh lnc&rg&e q&mr Mu&u urefawmfu& i&Munf&w, /
jy&awmh pO&f; pm; w, / use&wh q&mr aw&w&v&nf; jy&ku&w, /

]]at; ..ri&fvnf; 'lu?y/ at; av? ig&w&v&nf; vuзу&n&Mu&u&w&w&awmh te&w&if
' lv&er&fiy/ ul&aomufy&gap? aomufy&gap? at; at; v&f? q&mr raomuf&if
t&f lv&pt&f&ay; v&u&f}}

q&mr av; u rjy&ku&if; vuзу&n&w&pt&f&uf v&mc&ay; w, / o&h&ku
awmfawmf [kw&aw, f&yg&av.. q&w&h rjy&kr&st/ urefawmf&w&u&w vuзу&n&f&uf
a&mu&f&w&awmh urefawmf awmfawmf&ay&mf&of&h; w, / &if x&h&fvnf; ausey&of&h; w, /
u&f lv&pO&f; pm; Munf&av/ wu?&h&fi pmar; y&ajz&if; vuзу&n&omuf&w, f&q&w&h
tjz&pr&st; u urefawmf&w&pa, mu&f&y&f &w&mr [kw&v&w; / vuзу&n&av; i&w&u&f jr&w&u&f.
pmu&f pO&f; pm; jy&ba&v&u&f&el t [m; ... awmfawmf &cl&wh t&omy&gy/

q&mr aw&w&v&nf; at; at; aq; aq; yg/ e, fu&f r&ns&er wi&w&h&t&al&u&mf&aw& b, f&q&mr&el
b, f&q&mr Mu&u&f&aw, f&q&w&w&aw&w& pp&A&v&w&pa, mu&f&el , jy&f x&u&of&h; w&h
q&mr w&pa, mu&ft&al&u&mf&aw&u&f ajy&ma&ell&w, / vuзу&n&f&urefawmh pmar; y&ajz&of&el
E&p&em&el&ey&g&el&ejy&f urefawmf&v&nf; 8 r&sv&w&el 2 y&f&el 16 r&sv&w&el w&py&f&f ajzjy&aejy&f
urefawmfu& C&em&istry vu&aw&w&f &ur&f&ch&av&awmh a&emuf&x&y&f 16 r&sv&w&el
w&py&f&f&w&mf ajzjy&el&if at&mi&f&sv&u&f aoc&ma&ey&gy&f

'gayr, h culvnu urelavmf clwif;csObewmy/ vuzunhaomufjyDawmh
aq;ayghvfuav; zncsi fvmwmaygh/ urelavmf xyfavmf; qhawmh q&mrMuD u 'gawmh
jiifw, v

]]' r, f uH lavmf tclfta&vnt; oyr, leD/ pmar;yajz&if aq;vlyhaomufvmawmh
r&bt/ aomuksi&if tjyifx(uaomu)}

q&mrMuDajymwh tjyifx(uaomuqHvmu a&sbucMuH ajymifjyD aomu&wmuH
ajymwmyg/ urelavmf aq;ayghvfuH tm;yg;&zhaawmh aemufu q&mrUav;Epa, muFu
jyHun&if urelavmh Answer paper uH vst, Mun&if ajzEh fvm;vH ar;Muw, v
Esem&Eyg; twaevu&awmh &if;EboH;ynyy/ urelavmfvnt; rqllygbt;ayghv/
Esem&Eum&if x(ufw, r[kwfm;.. vH ar;awmh olwu urelavmfajzxm;wmaw(ul
avnuMun&if tyl hao;Epyk el tyl MuDwpyk ty) &ao;wm ajzOdwH jyDrs o&wmu
tjD q&mrEpa, muFu Chemistry Major uyg/ wpcck r&st;wm&Eif ar;vBatmf
tcef;wH frn xm;& wmOefu&wh oabmygy/ wu?frnu uH lar*sr[kw&if tao;plw
romubt;uH/ jyDawmh tjDvlef;u wu?far;cefawu ygarmu?vu&e/ xkwfm?
tclw Computer awG bmawel r[kwbt;r[kwfm;/

'vle/ Esem&Eavmuf ajzyDawmh urelavm tmi frsvuH Chemistry u q&mravvnt;
auseyob;Muw, v urelavmfvnt; 'DRC Hl MuDxu x(ufaj;csi aejyH Answer
paper tyl q&mrav(ul aus;ZtwiHlumi;ajymjyD x(ufw, v olwuvnt;
aus;Ztwiygw, wH tcef;jiifx(ufmayr, h pmar;yajzwh t&omuH r&ygbt;/
uH fvpá, muFvnt;H ysi fajcmubjcmuMuD/

tjD wpcckcep&E&D 'lu?u tjDfrnwif jyDovm; qhawmh r[kwbt/ pmar;yatmi pm&if
x(ufwH xdygw, v tjEprn urelavm tmi ygw, v tj pmar;yG m
urelavm tmi fom;bO&D aemufqHEpa&D aemufqHbmom pmar;yH urelavm tmi , csi f
at;ulwH cicihaomwH x(ufazwH vfr, qH vfrp&m tx;tqef;aygh
tj pmar;yG jyDob;wHemuf urelavmf[m ausmf;pmar;yqH wpcck rajz&awmlygbt/
trsvw&ayghv/

pmar;yatmi pm&if;x(ufvH ob;Munhawmh uyfxm;wh pm&ufxfrn urelavm tmi rnfawvH
aysnr, MuHvlef;]][, f. eiatmiw, ? 'g eicel;ygwH r[kwfm;? eiatmiw, r[kwfm;}}
vH urelavm tmi tHwMuD atMuD[plus, f ar;wh ausmf;ole/ awlygw, v pmuH

atmfajmijy)awmh ajzwh ausmifobvAsm/ urelawmfvnt; vMum;xrñi tatmñvlu&awmh
aMumi fyt) bmajym&rñe; roðawmlot;/

]]eif. atmiw, f [kwfm;}}

]] [kw, fav? ci fAsm;vnt; atmiwmyl
bmjzpfv}}}

]]eif b, fvlyatmiwmv}}

ol wtwwb tar;allumi h urelawmf oabmayguvlu fygw, / oel urelawmfu
clfygwuyvsvulqawmh ol urelawmfu Zoo rñemy l xirñiyg/ Zoo ajzwhelñi
urelawmfrvmwumvnt; (oel jy? uixm;awmh) ol owkm;rdvñir, / urelawmfawmh
ujyvl olwxpñs wluixm;rñiy/ urelawmfvnt; olñtm;oiñylul csOfñ;wme
]]atmiw, fqlvm rusvlygñ vñ ajzvlw, /

urelawmpum;u cyfwvwlmpum;yg/ 'gayr, fi oltwluawmh qefañerñi trñeyl

]]r [kwbt;av? aemulqhaelu eifvmrajzbt;av? [h. [kw, faemauoð igawmifrs
eifulyao;w,]}

]]at;av}}

]]pmar;yqlvm vmrajzwh f usvmrS r [kwfm/ tck ig atmiw, f awvfm;}}

urelawmfajmijy) vñixucw, / olw urelawmfemuausmao;ao;uav;ul tñopw?
em;rvnñpwe l ai;Munhaelurñi trñeyl urelawmf olwul acgifpm;clvm r [kwlygbt;/
xyrajmijy rñs f;jycsi fawmlot;Asm/ 'D wpolñcep&ñitallumi f;ul ya [Vlvpñkt aee l

၂၀၀၀ ခုနှစ် ဝါဆိုလပြည့်ကျော် ၁၀ ရက်နေ့၊ နံနက် ၈ နာရီခွဲတွင် ဝိသုဒ္ဓိတရားတော် ပြုစုခဲ့ပါသည်။

(၁၉၉၃ ခုနှစ် ဝါဆိုလပြည့်ကျော် ၁၀ ရက်နေ့)

၂၀၀၀

၂၀၀၀ ခုနှစ် ဝါဆိုလပြည့်ကျော် ၁၀ ရက်နေ့

၂၀၀၀ ခုနှစ် ဝါဆိုလပြည့်ကျော် ၁၀ ရက်နေ့