

, i z aj j py; gj pt p w f f k; nraa www.iaraindia.com  
j kpha;Tr; rqfkk; - gddhl L Mat;g o;

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### ej p , yffpaqfsy; mwptay;

#### Ki dtH.k.fj h

c j tpgNguhrpupaH j kpoj ;Ji w>  
mtpdhrpyqfkk; ki dapa; kwWk;  
kfsH c ahfy;tp epWtdk>  
NfhakGj ;J}H - 641 043.

kdj d; GJgGJ , yl rpaqfi sNehffg; gaz tj ;Jf; nfhz bUffpwhd;  
kdj Fyj j pd; mwptehS fFehs; thpti l tj hy; gi oavyi yfs;  
rpi j ffpdwd. gi oafUj ;Jffs; khwwk; ngWfpdwd. cyfshtpamstpy;  
mwptay; , dWkdj thotpd; Cdha; capaha; khwff; nfhz bUffpdwJ.  
, di wacyfk; mwptay; cyfkhfj; j pfo;tj hy; rKj haj j pd;  
nkhj j Nj i tAk; mwptay; mbggi l apy; mi ktJ fhyj j pd; fl l hakhpdwJ.  
kdj thotpy; mwptay; Xh; mqfkhfkhwptpl ;J. mwptaypd; Ji z  
, yi yNay; kdj dhy; xUmqFythoi tf\$ l efhj j KbahJ vdgJ cz i k.  
rqffhyj; j kphfspd; tho;TKi w , awi fNahL , i aej xdwHfK; ek;  
KdNdhhfs; mwptay; rpej i dapy; Mwwy; kpf f thfshftpsqf pdhhfs;  
gyMapuk; Mz l fS fFg; gpddh; fz Lgpbffgg l vj j i dNahmwptay;  
nraj pfs; kwWk; fz LgpbgGf;fs; gz i l aj kpo; , yffpaqfsy; gutpf;  
fpl ggi j f; fhz KbfpdwJ. ej p E}yfsy; fhz ggLk; mwptay;  
rpej i dfi sg; gwwpMuhatNj , ffl Li uapd; NehffkhfK;

vyyhf; fhyj j pdUfFk>vyyhehl bdUfFk>vyyhkj j j pdUfFk;  
nghUe;Jk; ti fa;py; cyfgnghJki wahfmi ke;Jssj drrpwgGg;  
ngwwJj pUf;Fws; ej pi aAk; mwnewpi aAk; kl l k; vLj ;Ji uf;Fk;  
E}yhfmi kahJmwptay; , yffpakhfTK; mi ke;JssJ. j pUtsS thpd;  
j pUf;Fwi sg; gFj ;Jj ; nj hfj ;Jti fggLj j ptpsffpf; fh l k; Ki wmwptay;  
mZ FK i wapd; mbggi l apy; hd;

*“vgnghUs; ahahh; thafllfl gDk; mgnghUs;*

*nkagnghUs; fhz gJmwpt”*(Fws:423)

vdwFwsy; Nfl l i j f; Nfl l thNwVwWf; nfhsS ti j tpl j ;JNfl l nghUspd;  
nkaahdepi yi af; fhz gNj mwptayhFk; vdfpdwdh;  
, t;thwhdrpej mwptl d; \$bakdj Mwwy; epi yMwwi y (PotentialEnergy)  
, affMwwyhfkhwptl k; (KineticEnergy) tsi knfhz l hfK; thOk;  
tho;Tc aph; vdwhy;mej thotpd; fz z hf xspc kpotJ mwptay;

mhp] l hl by; nj hl qf;fj hykpMhpaggl l hNghdwNki j fS k> 15-Mk; E}wwhz by; thoej epfNfhyyqf;fug] ; fz gj ;Jntspapl l c yfj j pd; Rowr;Ak;Nfhs;fspd; , aff;fj j f; fz l wpej N[hfd] ; nfgshpd; Ma;TK; c yfk; c Uz i l vdgi j Ak; Nfhs;fspd; epi yfi sAk; c Wj pggLj j pf; \$Wf;pdwd. Mdhy; , thfs; fz l wptj wFgy E}wwhz l fS fFK dNgj pUtsS tUk>

***“RodWk; VhggiddJc yfk; mj dhy;***

***coe;Jk; coltji y”***(Fws;1031)

vdwFwspy; mwptpay; mZ FK i wNahLc yfk; c Uz i l j hd; vdgi j nkaggj ;Jf; \$wp , t;Tyfpy; gynj hopy;fs; , UggpDk; c yfk; Roy;tJVhj nj hopy yekggj j hd; vdWc oTj; nj hopy;pd; rpwggpi df; \$WtJk; NghwWj wFhpaj.

nraahky; nraj c j tpi af; fz f;fpy; ml qf;hj xdwhff; FwpggpLk; 101-MtJ Fwspy; fz pf;FK; Ki wi a GyggLj ;Jf;pdwhh; fz gj k; mwptpay;pd; murpahfj; j p;fot;jhy; mwptpay; tpi sr;ry;fspd; fodp fz gj k; vdf; nfhs;syhk; fz gj k; , dwp mwptpayNyh mZ AfNkh , yi y>mj dbggi l apy; , aq;FK; t;tz ntsp Ma;TfNsh nj hopy;Elgg; ngUf;f;q;fNsh , yi y. 0 Kjy; 10 ti uahd vz;fi sg; gyNtW Fws;fspd; to;ntspggLj ;Jk; ts;Sth; mwptpay c z hej fz gj Nki j ahth;

gz ila , yf;f;paq;f;spy; kUj ;Jtk; gwwpa nraj pfi aAk> rpf;ri r Ki wfi sAk; fhz Kbf;wJ. j pUf;Fwspy; c ss‘kUe;J’vd;Dk; mj pf;huj j py; Neha; tUtj d; fhuz q;fi sAk; mJ tuhky; j Lf;FK; Ki wfi sAk> Neha; tej gpdG j h;f;FK; topfi sAk; kp;ft;h;th;ff; \$Wf;pdwhh; j pUts;Sth;

***“NehaehbNehaKj y; ehbmJj z pf;FK;***

***thaehbthaggr; nray”***(Fws;948)

vdgJ ts;Sthpd; kUj ;Jt Ki wahFK; , di wa mwptpay;pd; gz gl l tshrr;papdhy; mWi t rpf;ri r c WgGf;fi s khwwk; nraj y> g;gsh] bf; mWi t rpf;ri r> Nyrh; mWi t rpf;ri r Nghdw gyNtW kUj ;Jt Ki wapy; vs;pi kahf;fggl Lssi j f; fhz Kbf;wJ.

goej kp;oh;fs; fz gj j j py; j rkgpddk; mi kf;FK; Ki wi aj; nj hl q;f; i tjj nraj papi d>

***“Mhj j ri g E}wwwhUth;Mapuj; nj hdwhk; Gyth;***

***thj j j gj pdhapuj; nj hUth; Gj j kyhj;***

***j z j hki uj j pUNtj hj hNf;hb;f; nfhUth;***

***cz l had; cz nl dWmW”***(j digghl y;45)

vdw xsi tahhp; ghlypy; ntspggLj j ggl LssJ. j rk gpd; vz;fspd; thpi rapy; E}wwpy; xdW> Mapuj j py; xdW> gj pdhapuj j py; xdW> Nf;hb;apy; xdW vdwthW RIbr; nry;ti j f; fhz yhk;

xUgbghi yNah> el uNah Kf;fhy; gbahfr; RUf;fp msf;ft;payhJ. ehgngghUS fFr; RUq;fk; j di k , yi y. ehg; nghUs;fspd; , rRUq;fh , ayi g mwptpay; Gh;tkhff; fz l wpe;J \$wpath; gh] fy; vDk; mwptpay; mw;Qh; ehg; nghUs; RUq;fh , ayi g (Non Compressibility of Liquids) vdgh; , t;Tz j ki a gh] ;fy; fz l wpe;J \$Wtj wFg; gy E}wwhz l f;f KdNg xsi tahhp;>

*“Mo mKffKffDk; Mofly; eh;  
ehopKfthJehyehop-Nj hop  
ejjAk; fz tDk; NehgbDk; jjj k;  
tjpad; galld gad;”*(j dpgghl y:60)

vdwghl y; tpsfFfpdwJ. ‘Mofly; eh;’Mo mKffKffDk; nrhwnwhl hfspd; %yk; Mojjjg; nghWjJehpd; mOjjk; mjpfkhFk; vdwmwptjay; cziki af; \$wpAsshh; “xUehkjjnyh myyJ thAtnyh nfhLfFggLk; mOjjk; vyyhj; jpi rfsPYk; rkkhfg; guTfwJ” vdw gh]fy; tjpi a mbggi lahff; nfhz lJ , gghly; xUrpwpa tpi rapd; %yk; kpfngghpa tpi ri ag; ngwKbAk; vdDk; fUjjjAk> , jd; mbggi lafy; jhd; nghpagQR %li lfi sAk> fhfj qfi sAk; mOjjp XhpljjpyUeJ kwNwhh; , ljjpwF mDggggLfpdwJ vdw fUjJ Kdi tffggLfpdwJ.

xUr%fk; cahtila NtzLk; vdwhy; jdkkdj thoT eynyhOfk; cilajhf mi kaNtzLk; jaxOfjhy; jhd; ghypay; Nehafs; NjhdWfpdw. kdj Dk; kdj d; rhhej rej jpfSk; moptij , di wa etbkUjJtk; vLjJi uf;fpdwJ. MrhufNfhi tapd; gdpuz lhtJ ghly; xUth; mzpej fhyz pi a kwwth; mz paf; \$lhJ vdfpdwJ. cly; ntggjj ntsggJjTk; ntsntggjj csthqfTk; \$ba cly; cWgGfSs; ghjqfSk; mlqFk; ghjqfspy; mz pAk; fhyz pfsPYk; NehaffpUkpfS; , Ufff\$Lk; Mjyhy; gpwUila fhyz pfi smz paf; \$lhJ vdgJk; , di wa mwptjay; rhhej mwpti uNahL RIggglLssJ. gpwh; mzpej Mi lila mz paf; \$lhJ vdgij >

*“ji yAi ujvz iz ahy; vt;TWgGk; j& jhi k  
gpwh; vLjJ khRz pAk; j& jhh; nrUgGf;*

*Fi wnadpDk; nfhssth; , ueJ”*(MrhufNfhi t-12)

vdw Mrhuf; Nfhi tg; ghly; xUth; cLjjpa Milifis kwnwhUth; cLjJk; NghJ cly; ntggjjhy; ntspahfpa NehaffpUkpfS; mtthi lafy; , UeJ kwwtUfFk; gutf; \$Lk; vdgi jAk> KddtUfF , Uej Njhy; taphj pf; fpUkpfS; gddtUfFk; teJ NrheJtpLk; vdgi jAk; mwptjay; Nehf;NfhL GyggLjJfpdwJ.

xUtd; czZk; NghJ xspia toqFk; fpoFj; jpi rNehf;fp mkheJ> NtWrpej i dspy; <Lgl hky> ci uahl hky; czitr; rpej hky; czZntzLk; Czit czljwFg; gpd> thia %dW Kiw jzz h; Cwwp nfhggsjjy; NtzLk; mtthW nfhggsjj czTj; Jspfs; , dwp thia J}aikahf itjJf; nfhsNtzLk; vdkUjJthj pahf \$wggLfwpJ. , jid>

*“, ophi kedFkpe; njrrywha;*

*mbllahLedFJi ljJtbTi ljjh”*(MrhufNfhi t-27)

vdw ghlybfspd; %yk; mwpeJnfhsSKbfpdwJ.

clw; fopTfis ntsNawWk; rpWeth> kyk; Mfpatwi w vf;fhuzjjj f; nfhzLk; mlfff; \$lhJ vdgJ kUjJt tjpi , jid>

*“, ejpj hdk; ngwDk; , UgyDk; , fohNu”*(MrhufNfhi t-34)

vdwghl ybapd; %yk; , ej puNyhfg; gj tpfpi lggj hf , UggpDk; , twi w , fohh; (ml f/fhh) vdWFWggpLfpdWJ.

kdj clypy; fUkpf; GfthagGss , lqfsy; efKk; xdW. i f efqfsy; css fUkpf; cz T cz Z k; NghJ tapWwFFs; nrdW cly; eyf; Fi wT Vwgl thagGz L. vdNtjhd; efjij thujjpwF xUKi w ntlbr; Rjjk; nraJ nfhssNtz Lk; vdf; Foeijfi s twGWj Jth; , fUjijg; ngUthapd; Ksspahh; kUj Jt Nehfpy; MuhaeJ \$Wfwhh; cz T cz z g; gadgLj Jk; tyJi fahy; cli yr; nrhwj y; \$lHJ vdfpwhh; nrhwj y; %ykhfmOfF>fUkNghdwi tefjij py; NrheJ Fli yr; nrdW mi leJ j bF tpi stpfFk; vdgi j >

**“, Ui fnrhuhahh; c l kGkLj J”**(MrhufNfhi t-28)

vdwmbapd; %yk; fhz yhk;

kUj Jtjjpwfhf Crpfi sg; gadgLj j Mukggj j fhyjj py; mi t xtntHUKi w gadgLj j ggl l gpwFk; nfhj pfFk; ehpy; , lLj; J}ai k nraaggl d. jwNghJ xUKi w gadgLj j pa gpwF J}f;fp vwpeJ tplLk; ti fapy; jahhpffggll Crpfs; (DisposableSyringe) gadghl bwF teJ tpl d. kUj Jtjjpwfhf xUtUfFg; gadgLj j pa fUtpfi s kwwtUfFg; gadgLj j f; \$lHJ vdDk; kUj Jt mwptpay; mwpi t MrhufNfhi t mf;fhyjj NyNa jeJssi k Fwggpl j j ffJ.

xUtDi la fz z pwF kUeJ , l l Nfhi yr; Rjjk; nraahky; gpwh; fz Z fFg; gadgLj Jjy; \$lHJ. , j dhy; fUkpf; kwwtUfFg; guTk; thagG cssJ vdgi j >

**‘fz nz rry; fz Z j l h’**(MrhufNfhi t-41)

vdwmbapd; %yk; mwpa KbfpdWJ. NkYk; Nehapyyhky; , UffNtz Lgth; gfy; c wqfkh l h; vdgi j >

**‘gfy; tsuhh; nehadi kNtz Lgth’**(MrhufNfhi t-57)

vdwmbapd; top FwggpLfpdwhh; Nehaww thoNt Fi wtw nrytk; vdgi j cz heJ mf;fhy kffs; thoej dh; vdgi j mwpa KbfpdWJ.

kdj d; kdj dhf thotjwF topfhl LtJk> cahej fUj Jffi s vLj Ji uj J mwptWj j p kdj thoi tr; nrki kggLj j p khz Gwr; nratJk; eJ p , yf;fpaj j pd; Nehf;fkHfK; gy E}wwhz l fS fF Kddh; Nj hdwpa eJ p E}yfsy; j wfh y mwptpay; rpej i dfs; gutpf; fhz ggLfpdwd. , eE}yfs; kdj d; gpdgww Ntz ba xOfyhWfi s mwptpay; Nehf;fNfhl Rl br; nryti j f; fhz KbfpdWJ.