Contact Details +919663737998 +919788519850

,awgpay; tpdh tq;fp

myF 1: ,aw்ி ச்cyfj;jpd; jd;ikAk; mstPLfSk;

Neuk;: 1 kzp. 45 epkplq;fs; +1 ,awgpay; kjpg;ngz;fs;: 50

gFjp - I

midj;J tpdhf;fSf;Fk; tpilaspf;fTk; **10 x 1 = 10**

1. mbggil khwpypf;fspy; ,UeJ $\frac{hc}{G}$ vdw xU rkdghL ngwggLfpwJ. ,ej rkdghlbd myF
   (m) Kg^2 (M) m^3 (,) S^{-1} (<) m
2. miyTWk Crypd esk kwWk miyT Neuk ngwWss gpiofs KiwNa 1% kwWk 3% vdpy; <hgG KLffk mstpLjypy VwgLk gpio
   (m) 4% (M) 5% (,) 6% (<) 7%
3. fofzltwWs mjpf Kffpa vzZUffisf nfhzlJ vJ?
   (m) $0.007m^2$ (M) 2.64×10^{24}kg (,) $0.0006032\, m^2$ (<) $6.3200J$
4. π ,d kjpgG $\pi = 3.14$ vdpy π^2 ,d kjpgG
   (m) 9.8596 (M) 9.860 (,) 9.86 (<) 9.9
5. fofffzl ,izfspy xjj ghpkhzjij ngwWss ,awgpay msTfs
   (m) tpir kwWk jpwd (M) jpUgG tpir kwWk Mwwy
   (,) jpUgG tpir kwWk jpwd (<) tpir kwWk jpUgG tpir
6. CGS Kiwapy xU nghUspd mlhjjp $4gcm^{-3}$ MFk. esk 10cm, epiw 100g nfhzbUffFk Xh myF Kiwapy mgnghUspd mlhjjp
   (m) 0.04 (M) 0.4 (,) 40 (<) 400
7. gpshqf khwpypapd ghpkhz thagghL
   (m) $[ML^2T^{-1}]$ (M) $[ML^2T^{-3}]$ (,) $[ML^3T^{-3}]$ (<) $[MLT^{-1}]$
8. xU Nfhsjjpd Mujij mstpLjypy gpio 2% vdpy› mjd fdmsitf fzffpLjypd gpioahdJ
   (m) 8% (M) 2% (,) 4% (<) 6%
9. nghUnshdwpd esk 3.51 m vd mstplgglLssJ. Jyypajjdik vdpy› mstlbd tpOffhlLg gpio
   (m) 351% (M) 1% (,) 0.28% (<) 0.035%
10. 19.95 vdw vziz %dW Kffpa vzZU tbtpy KOikgglLjJf.
    (m) 19.9 (M) 20.0 (,) 20.1 (<) 19.5

gFjp - II

midj;J tpdhf;fSf;Fk; tpilaspf;fTk; **4 x 2 = 8**

11. xU Nfhspd kJ Nulhh Jbggid nrYjjp 7 epkplqfSfFg gpd mjd vjpnuhspffgglL JbgG ngwggLfpwJ. NfhSfFk GtpfFk ,ilNaahd njhiyT 6.3×10^{10}m vdpy› Nulhh Jbggpd jpirNtfjijf fzffpLf.
12. KOikggLjJjy gwwp FwpgngOJf.
13. myF tiuaW
14. Ighnrf tiuaW.

gFjp - III

midj;J tpdhf;fSf;Fk; tpilaspf;fTk; **4 x 3 = 12**

15. ezl njhiyTfis msfFk KfNfhz Kiw gwwp FwpggpLf.
16. ghpkhz gFgghatpd tukGfs ahit?
17. xU ntggepiykhdp nfhzL mstplggll ,U nghUlfspd ntggepiy $t_1 = (20 + 0.5)$°C kwWk $t_2 = (50 \pm 0.5)°C$ vdpy mtwwpd ntggepiy NtWghlbidAk› gpioAk fzffpLf.
18. jiuapy xU GsspapyUeJ Xh kujjpd crrpahdJ 60° Vwwf Nfhzjjpy NjhdWfpwJ. kujjpwFk mgGsspfFk ,ilggll J}uk 50m vdpy kujjpd cauijjf fhzf.

gFjp - IV

tphpthd tpilaspf;fTk; **4 x 5 = 20**

19. gpiofspd ntNtW tiffis tpsfFf.
20. m) ghpkhzqfs KiwNa 76cm ghjur mOjjij Nm^{-2} vdw myfpwF khwWf.
    M) $\frac{1}{2}mv^2 = mgh$ vdw rkdghlil ghpkhzggFgghaT Kiwggb rhpahdjh vd fzlwpf.
21. Kffpa vzZUffis fzffpLtjd tpjpfis vLjJffhlLld vOJf.

22. m) Gtpaypyuej epytpd njhiytpid fzffpLjiy tpsfFf.
M) Gtpaypyuej [gplluppd njhiyT 824.7 kpyypad km mjd mstpIggll Nfhz tpllk 35.72″ vdpy [gpllupd tpllj ij fzffpLf.

****

,awgpay; tpdh tq;fp
myF 2: ,af;ftpay;

Neuk;: 1 kzp. 45 epkplqfs +1 ,awgpay; kjpgng z;fs;: 50

gFjp - I

midj;J tpdhf;fSf;Fk; tpilasp: **10 x 1 = 10**

1. m_1 kwWk m_2 epiw nfhzl ,uzL nghUlfs h_1 kwWk h_2 cauj jpypUeJ tpOfpdwd. mit jiuia milAk NghJ mtwwpd cejqfspd vzkjpgGfspd tpfpjk vdd?
   (m) $\sqrt{\frac{h_1}{h_2}}$ (M) $\sqrt{\frac{m_1h_1}{m_2h_2}}$ (,) $\frac{m_1}{m_2}\sqrt{\frac{h_1}{h_2}}$ (<) $\frac{m_1}{m_2}$
2. rk cauj jpy css ,U nghUlfspy xdW jhdhf foNehffp tpOfwJ. kwnwhdW fpilj jsj jpy vwpaggLfwJ. t tpdhbapy mit flej nrqFjJ njhiyTfspd tpfpjk vdd?
   (m) 1 (M) 2 (,) 4 (<) 0.5
3. $\vec{A}\,x\,\vec{B}$ − d jpiriaf fhz
   (m) tyJif jpUF tpjp (M) tyJ if flil tpuy tpjp
   (,)(m) kwWk (M) (<)(m) kwWk (M) ,yiy
4. JfnshdW vjhFwp jpirNtfj ijAk› vjhFwp KLffj ijAk ngwWssJ vdpy› mjJfspd Ntfk
   (m) mjpfhpfFk (M) FiwAk (,)khwhJ (<)Rop
5. ntflhpd juk vd mioffggLtJ
   (m) vzkjpgG klLk (M) jpir klLk
   (,) vzkjpgG kwWk jpir ,uzLk (<) vzkjpgG kwWk jpir ,uzLkyy
6. gpdtUtdtwWs vej ,awgpay msT]Nfyhy Fwpggpl ,ayhJ?
   (m) epiw (M) esk (,) cejk (<) KLffjjpd vz kjpgG
7. $(\vec{A}+\vec{B})$ kwWk $(\vec{A}-\vec{B})$,uzLfFk ,ilNaahd Nfhzk
   (m) 0° klLk (M) 90° klLk
   (,)0° kwWk 90° fF ,ilNa (<)0° kwWk 180° fF ,ilNa
8. JfnshdwpD jpirNtfk $\vec{v}=2\hat{\imath}+t^2\hat{\jmath}-9\hat{k}$ vdpy› t = 0.5 s tpdhbapy mrjJfspd KLffjjpd vzkjpgG ahJ?
   (m) $1ms^{-2}$ (M) $2ms^{-2}$ (,) Rop (<)$-1ms$
9. gpdtUtdtwWs vJ XuyF ntflh?
   (m) $\hat{\imath}+\hat{\jmath}$ (M) $\frac{\hat{\imath}}{\sqrt{2}}$ (,)$\hat{k}-\frac{\hat{\jmath}}{\sqrt{2}}$ (<)$\frac{\hat{\imath}+\hat{\jmath}}{2}$
10. $-3\hat{\imath}+6\hat{k}$ kwWk $2\hat{\imath}+3\hat{\jmath}+\hat{k}$ Mfpa ,uzL ntflhfSfF ,ilNaahd Nfhzk
   (m) 0° (M) 45° (,)60° (<)90°

gFjp - II

midj;J tpdhf;fSf;Fk; tpilasp: **4 x 2 = 8**

11. jpirNtfk kwWk ruhrhp jpirNtfk ,twwpwfpilNaahd NtWghLfs ahit?
12. A kwWk B vdw ,uzL ,uapy tzbfs ,izahd ,uapy ghijapy xNu jpirapy fofF Nehffp 50 kmh^{-1} vdw jpirNtfjjpy nryfpdwd. ,uapy tzbfspd rhhGj jpirNtfqfisf fhzf.
13. KLffk tiuaW
14. nfhLffggll ntflh $\vec{r}=2\hat{\imath}+3\hat{\jmath}+5\hat{k}$ kwWk $\vec{F}=3\hat{\imath}-2\hat{\jmath}+4\hat{k}$ ntflh MfpatwiW njhFgad ntflh $\vec{r}=\vec{r}x\vec{F}$ If fhzf.

gFjp - III

midj;J tpdhf;fSf;Fk; tpilasp: **4 x 3 = 12**

15. A, B kwWk C vdw %dW Jfsfspd jpirNtfqfs fNo nfhLffgglLssd. ,twWs vej Jfs mjpf Ntfjjpy nryYk. $\vec{V}_A=3\hat{\imath}-5\hat{\jmath}+2\hat{k}$ $\vec{V}_B=\hat{\imath}+2\hat{\jmath}+3\hat{k}$ $\vec{V}_C=5\hat{\imath}+3\hat{\jmath}+4\hat{k}$
16. xU ghpkhz› ,Ughpkhz kwWk Kgghpkhz ,afffjij tpsfFf.
17. ruhd tll ,afffjjpd njhFgad KLffjjwfhd Nfhitia ngWf.
18. 10m cauj jpypUeJ ,UkGg geJ kwWk ,wF ,uzLk xNu Neuj jpy tpOfpdwd. ,UkGg geJ

kwWk ,wF ,uzLk jiuia mila vLjJf nfhsSk Neuk vttsT?

(m) ,UkGg geJ kwWk ,wF ,uzLk jiuia milAk NghJ mtwwpd jpirNtfqfs vttsT? (fhwW jilia Gwffzpffk NkYk $g = 10ms^{-2}$ vdf)

gFjp - IV

tphpthd tpilasp: **4 x 5 = 20**

19. (i)]Nfyhh ngUffyfspd gzGfis tpthp.

    (ii) nfhLffggll $\bar{A} = 2\hat{\imath} + 4\hat{\jmath} + 5\hat{k}$ kwWk $\vec{B} = \hat{\imath} + 3\hat{\jmath} + 6\hat{k}$ ntflhfspd]Nfyhh ngUffy $\bar{A}, \bar{B}$ kwWk $\bar{A}.\bar{B}$,d vzkjpgGfisAk fhzf. NkYk nfhLffggll ,ttpuzL ntflhfSfF ,ilggll Nfhzjjpd kjpgG vdd?

20. fpiljjsjJld θ Nfhzk rhathf vwpaggll vwpnghUs xdwpd ngUk caujij fzffpLk rkdghLfisg ngWf.

21. khwhj KLffk ngww nghUspd ,affr rkdghLfis tUtpffTk.

22. ntflh $Ljypd KfNfhz tpjpia tphpthf tpsffTk.

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+1 இயற்பியல்

PP

Ë] ã Y j f

1. A X h Y ã Á V ã L &R À Í Ë] ã ¦ R ã Ô – 11
2. A W r &R À Í U ã § Á Ë] ã ¦ R ã Ô – 5
3. A W r &R À Í ¦ R ã Ô – 5

(H ± W Å, ^ $ ß – 2023, 2024, H ± W Å 2025)

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