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JEE (Main) PAPER-1 (B.E./B. TECH.)

2022


COMPUTER BASED TEST (CBT) Memory Based Questions & Solutions

Date: 24 June, 2022 (SHIFT-2) | TIME : (3.00 p.m. to 6.00 p.m)
Duration: 3 Hours | Max. Marks: 300

SUBJECT: PHYSICS

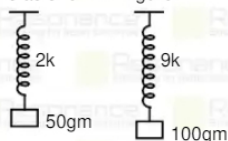
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PART : PHYSICS

1. We have two spring block systems as shown in figure.



During oscillation maximum speed of both block is same. Find the ratio of Amplitude of oscillation of Blocks ?

- (1) $\frac{1}{2}$ (2) $\frac{3}{2}$ (3) $\frac{1}{2}$ (4) $\frac{7}{2}$

Ans. (2)

Sol. $V_{\text{max}} = \omega_1 A_1 = \omega_2 A_2$

$$\frac{A_1}{A_2} = \frac{\omega_2}{\omega_1} = \frac{\sqrt{K_2/m_2}}{\sqrt{K_1/m_1}}$$

$$= \frac{\sqrt{K_2}}{\sqrt{K_1}} \times \frac{\sqrt{m_2}}{\sqrt{m_1}}$$

$$= \frac{\sqrt{9k}}{\sqrt{2k}} \times \frac{\sqrt{50}}{\sqrt{100}} = \frac{3}{2}$$

2. A particle of mass 5 kg is thrown upwards from ground. It experiences a constant air resistance 10 N opposite to the direction of velocity of particle. The ratio of time of ascent to the time of descent is. $[g = 10 \text{ m/s}^2]$

- (1) $\sqrt{\frac{3}{2}}$ (2) $\sqrt{\frac{2}{3}}$ (3) $\sqrt{\frac{1}{2}}$ (4) 1

Ans. (2)

Sol. Let a be the retardation produced by air resistive force $a = \frac{F_{\text{air}}}{M} = \frac{10}{5} = 2$, t_a and t_d be the time of ascent and time of descent respectively.
If the particle rises upto a height h

then $h = \frac{1}{2} (g + a) t_a^2$ and $h = \frac{1}{2} (g - a) t_d^2$

$\therefore \frac{t_a}{t_d} = \sqrt{\frac{g-a}{g+a}} = \sqrt{\frac{10-2}{10+2}} = \sqrt{\frac{2}{3}}$ Ans. $\sqrt{\frac{2}{3}}$

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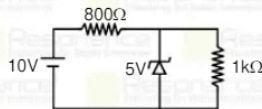
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3. Determine current in

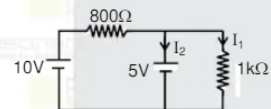


For the circuit above current through Zener diode.

- (1) 1.125 mA (2) 2.25 mA (3) 4 mA (4) 4.5 mA

Ans. (1)

Sol.



$-10 + 800I + 5 = 0$

$I = \frac{5}{800} \text{ Amp}$

$I_1 = \frac{5}{1000} \text{ Amp}$

$I_2 = I - I_1$

$I_2 = \frac{5}{800} - \frac{5}{1000} = 1.125 \text{ mA}$

4. If the ratio of intensity of light is 9 : 4. Find the ratio of maximum to minimum intensity due to interference of the lights.

- (1) 5 : 1 (2) 25 : 1 (3) 7 : 5 (4) 25 : 16

Ans. (2)

Sol. Given

$$\frac{I_1}{I_2} = \frac{9}{4}$$

$$\frac{I_{\max}}{I_{\min}} = \frac{(\sqrt{I_1} + \sqrt{I_2})^2}{(\sqrt{I_1} - \sqrt{I_2})^2} = \frac{(\sqrt{9} + \sqrt{4})^2}{(\sqrt{9} - \sqrt{4})^2} = \frac{(3+2)^2}{(3-2)^2} = 25 : 1$$

5. Proton, deuteron and α -particle are projected with same kinetic energy in uniform magnetic field in the direction perpendicular to the magnetic field. Then ratio radii in magnetic field is :

- (1) $1 : \sqrt{2} : \sqrt{2}$ (2) $1 : \sqrt{2} : 2$ (3) $1 : \sqrt{2} : 1$ (4) $\sqrt{2} : \sqrt{2} : 2\sqrt{2}$

Ans. (3)

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Sol. For circular path in magnetic field.

$$r = \frac{\sqrt{2mE}}{qB} \quad E = \text{kinetic energy}$$

So

	d	p	α
m	2	1	4
q	e	+e	2e

$$r_1 : r_2 : r_3 = \frac{\sqrt{m_1}}{q_1} : \frac{\sqrt{m_2}}{q_2} : \frac{\sqrt{m_3}}{q_3} = \frac{\sqrt{1}}{e} : \frac{\sqrt{2}}{e} : \frac{\sqrt{4}}{2e} = 1 : \sqrt{2} : 1$$

6. During circular motion with constant angular acceleration, in 1st second, starting from rest covers 5 rotation. Then find number of rotation in next second.

- (1) 5 (2) 12 (3) 10 (4) 15

Ans. (4)

Sol. $\theta = \omega t + \frac{1}{2} \alpha t^2$

$$\theta_1 = \frac{1}{2} \alpha (1)^2 \quad \dots(i)$$

$$\theta_1 + \theta_2 = \frac{1}{2} \alpha (2)^2 \quad \dots(ii)$$

so $\theta_2 = 3\theta_1 = 3 \times 5 = 15$

7. Hammer of mass 1.5 kg strikes to nail of mass 5 kg with velocity 20 m/s. $\frac{1}{4}$ th energy of hammer is transfer to nail, then find rise in temperature of nail, ($s = 0.42$)

- (1) 35 K (2) 102 K (3) 90 K (4) 180 K

Ans. (1)

Sol. $\frac{1}{4}$ kinetic energy of hammer is converted into heat. Which is transfer to the nail.

$$\frac{1}{4} \left(\frac{1}{2} M_{\text{hammer}} \times v^2 \right) = M_{\text{nail}} s \Delta\theta$$

$$\Delta\theta = \frac{1}{8} \frac{M_{\text{hammer}}}{M_{\text{nail}}} \frac{v^2}{s} = \frac{1 \times 1.5 \times (20)^2}{8 \times 5 \times 0.42} = 34.56 \text{ K}$$

8. Which of the following option have physical quantity of same dimension.

- (1) Angular velocity & Angular momentum (2) Wien's constant; Stefan's constant
 (3) Velocity gradient, decay constant (4) Torque, Force

Ans. (3)

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9. Earth is revolving around sun in orbit of radius r with time period T_1 . If radius becomes $3r$ and time periods becomes T_2 , find $\frac{T_2}{T_1}$:

- (1) $\sqrt{3}$ (2) $2\sqrt{3}$ (3) $3\sqrt{3}$ (4) $4\sqrt{3}$

Ans. (3)

Sol. $\frac{T_2}{T_1} = \left(\frac{r_2}{r_1}\right)^{3/2} = \left(\frac{3r}{r}\right)^{3/2}$

$\frac{T_2}{T_1} = 3\sqrt{3}$

10. A particle attached to a light rod moving with constant speed in vertical circular motion. Select the correct option :



- (1) Tension is minimum at highest position (2) Tension is maximum at highest position
 (3) Tension is maximum when string is Horizontal (4) Tension is minimum when string is horizontal.

Ans. (1)

11. A particle of mass 5 kg is projected is angle of 45° with horizontal at $t = 0$. Its velocity at $t = 2$ second is 20 m/s, than maximum height of particle from the earth surface.

- (1) 20 m (2) 40 m (3) 30 m (4) 10 m

Ans. (1)

Sol. Assume initial speed is u

then $\vec{u} = \frac{u}{\sqrt{2}} \hat{i} + \frac{u}{\sqrt{2}} \hat{j}$

at 2 sec

$\vec{v} = \frac{u}{\sqrt{2}} \hat{i} + \left(\frac{u}{\sqrt{2}} - g \times 2\right) \hat{j}$

given $\Rightarrow v = 20 = \sqrt{\left(\frac{u}{\sqrt{2}}\right)^2 + \left(\frac{u}{\sqrt{2}} - 2g\right)^2}$

$400 = \frac{u^2}{2} + \frac{u^2}{2} + 400 - \frac{40u}{\sqrt{2}} ; u^2 - \frac{40}{\sqrt{2}}u = 0 ; u\left(u - \frac{40}{\sqrt{2}}\right) = 0 \Rightarrow u = 0 \text{ or } u = \frac{40}{\sqrt{2}} \text{ m/s}$

Maximum height = $\frac{u^2(\sin^2 \theta)}{2g} = \frac{\left(\frac{40}{\sqrt{2}}\right)^2}{2g} = \frac{(20)^2}{20} = 20 \text{ m}$

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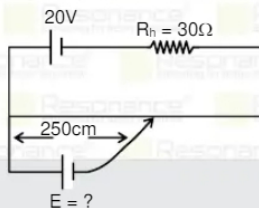
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12. In potentiometer circuit A cell of Emf E was balanced for balance length of 250 cm. Resistance of potentiometer wire = 20Ω . Length of potentiometer wire = 10 m. Determine Emf E.



- (1) 8 (2) 6 (3) 4 (4) 2

Ans. (2)

Sol. $I = \frac{20}{R + R_h} = \frac{20}{20 + 30} = \frac{20}{50} = \frac{2}{5}$ Amp

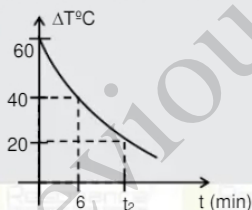
$Y = \text{potential gradient} = \frac{iR}{L} = \frac{2}{5} \times \frac{20}{10} = \frac{4}{5}$ V/m

Balance length = 250 cm = 2.5 metre

$E = y \times \text{Balance length} = \frac{4}{5} \times 2.5 = 2$ volt

Ans. 2 volt

13. Hot water at temperature 80°C start cooling in surrounding whose temperature remain constant. ΔT = temperature difference between water and surrounding
t = time in minutes
Graph showing variation of ΔT with time (t) in given. Determine t_2 in minutes



- (1) 16 min (2) 32 min (3) 45 min (4) 60 min

Ans. (1)

Sol. $\Delta T = T_{\text{water}} - T_{\text{surrounding}} = T - T_s$
At t = 0 $\Delta T = 60$ and $T = 80^\circ\text{C}$
 $80 - T_s = 60 \quad \therefore T_s = 20^\circ\text{C}$
Newton law of cooling
$$-\frac{(T_f - T_i)}{\Delta t} = k \left(\frac{T_i + T_f}{2} - T_s \right)$$

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between 0 to 6 minute

$$\frac{20}{6 \text{ min}} = k \left[\left(\frac{60 + 40}{2} + 20 \right) - 20 \right]$$

between 6 to t_2 minute

$$\frac{20}{t_2 - 6} = k \left[\left(\frac{40 + 20}{2} + 20 \right) - 20 \right]$$

after dividing by $t_2 = 16$ min.

14. Two identical small block of same charge $q = 2 \times 10^{-7} \text{ C}$ are placed on rough surface at distance ℓ from each other. Mass of each block is 10 gm and coefficient of friction for each block is $\mu = 0.25$. If both charges are in equilibrium then find ℓ .
 (1) 10 cm (2) 12 cm (3) 4 cm (4) 6 cm

Ans. (2)
 Sol.

$$\frac{kq^2}{\ell^2} = \mu mg$$

$$\ell = \sqrt{\frac{kq^2}{\mu mg}} = \sqrt{\frac{9 \times 10^9 \times 4 \times 10^{-14}}{0.25 \times 10 \times 10^{-3} \times 10}}$$

$$= \sqrt{\frac{36 \times 10^{-5+3}}{25}} = \frac{6}{5} \times 10^{-1} \text{ m} = \frac{60}{5} \text{ cm} = 12 \text{ cm}$$

15. Material used for making electromagnet have different properties of the following, which property best matches for type of magnet required.
 (1) High permeability & high retentively (2) low retentively and low coercivity
 (3) low retentively and high coercivity (4) High permeability & high coercivity
- Ans. (2)
16. **Statement-1** : Reactance may be zero if L and C are connected in AC circuit.
Statement-2 : Average power can never be zero.
 (1) Statement-1 is True, Statement-2 is True; Statement-2 is a correct explanation for Statement-1
 (2) Statement-1 is True, Statement-2 is True; Statement-2 is NOT a correct explanation for Statement-1
 (3) Statement-1 is True, Statement-2 is False
 (4) Statement-1 is False, Statement-2 is True.
- Ans. (3)

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17. In heat engine source temperature is $T_1 = 727^\circ\text{C}$ & sink temperature is $T_2 = 127^\circ\text{C}$. If it take 3000 Kcal heat from source in each cycle find work done (in Joule) by it in each cycle.
 (1) 900 J (2) 1800 J (3) $1800 \times 4.2 \text{ J}$ (4) $1800 \times 10^3 \times 4.2 \text{ J}$

Ans. (4)
 Sol.

Given
 $T_1 = 727 + 273 = 1000 \text{ K}$

$T_2 = 127 + 273 = 400 \text{ K}$

$Q_1 = 3000 \text{ K.cal}$

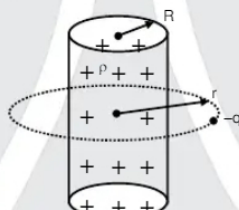
Efficiency

$$\eta = \frac{w}{Q_1} = 1 - \frac{T_2}{T_1}$$

$$w = Q_1 \left(1 - \frac{T_2}{T_1} \right) = 3000 \left(1 - \frac{400}{1000} \right)$$

$W = 1800 \text{ K. cal}$

18. $-q$ is moving along circular path around solid long cylinder under the interference of electric force. Determine kinetic energy of particle



- (1) $\frac{q\rho R^2}{3\epsilon_0}$ (2) $\frac{q\rho R^2}{8\epsilon_0}$ (3) $\frac{q\rho R^2}{4\epsilon_0}$ (4) $\frac{q\rho R^2}{4\epsilon_0 r}$

Ans. (3)

Sol. Charge (λ) per unit length of cylinder = $\frac{Q}{\ell}$

$$= \frac{\rho \times \pi R^2 \ell}{\ell} = \rho \pi R^2$$

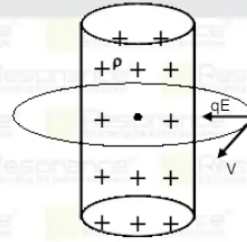
$$E = \frac{\lambda}{2\pi\epsilon_0 r} = \frac{\rho \pi R^2}{2\pi\epsilon_0 r} = \frac{\rho R^2}{2\epsilon_0 r}$$

$$qE = \frac{mV^2}{r}$$

$$\frac{q \times \rho R^2}{2\epsilon_0 r} = \frac{mV^2}{r}$$

$$mV^2 = \frac{q\rho R^2}{2\epsilon_0}$$

$$KE = \frac{1}{2} mV^2 = \frac{q\rho R^2}{4\epsilon_0}$$



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19. Lamp emit electromagnetic wave uniformly in all direction lamp is 3.5% efficient in converting electrical power to electromagnetic wave and consume 100 W of power. Determine the amplitude of magnetic field associated with wave at a distance of 4 metre from lamp.
 (1) 2.2×10^{-8} T (2) 3.5×10^{-8} T (3) 1.2×10^{-8} T (4) 6.4×10^{-8} T

Ans. (3)

Sol. Power of light = Power = $100 \times \frac{3.5}{100}$

$$I = \text{Intensity} = \frac{\text{Power}}{4\pi r^2} = \frac{3.5 \times 100}{100 \times 4\pi(4)^2} \text{ w/m}^2 = 0.0173 \text{ w/m}^2$$

$$I = \frac{B_0^2 C}{2\mu_0} ; B_0 = \sqrt{\frac{I \times 2\mu_0}{C}} ; B_0 = 1.2 \times 10^{-8} \text{ T}$$

20. In a process diatomic gas is used, work done by gas is Q and change in internal energy is Q/4, find molar heat capacity of the gas in terms of R is :

- (1) $\frac{25}{3} R$ (2) $\frac{25}{2} R$ (3) $\frac{25}{8} R$ (4) $\frac{25}{4} R$

Ans. (2)

Sol. given W = Q

$$\Delta U = \frac{Q}{4}$$

$$\Delta Q = W + \Delta U = Q + \frac{Q}{4} = \frac{5}{4} Q$$

$$\text{We know } \Delta U = \frac{f}{2} nR(\Delta T) \quad \dots\dots(1)$$

$$\& \Delta Q = nC\Delta T \quad \dots\dots(2)$$

equation (2) & (1)

$$\frac{C}{\frac{f}{2} R} = \frac{\Delta Q}{\Delta U} ; \frac{C}{\frac{f}{2} R} = \frac{5Q}{\frac{Q}{4}} \quad \therefore C = \frac{5fR}{2} = \frac{25R}{2}$$

21. A capacitor have some charge say 'Q' coulomb. If 2 coulomb charge more is given to that capacitor then energy of capacitor is increased by 44%. Determine initial charge 'Q' in coulomb.

- (1) 2C (2) 4C (3) 6C (4) 10C

Ans. (4)

Sol. $U = \frac{Q^2}{2C}$

New charge $\Rightarrow Q + 2$

$$U' = \text{new energy} = \frac{(Q+2)^2}{2C}$$

$$\frac{(Q+2)}{2C} = \frac{Q^2}{2C} \times 1.44$$

$$Q + 2 = Q \times \sqrt{1.44}$$

$$Q + 2 = Q \times 1.2$$

$$2 = 0.2 Q$$

$$Q = 10 \text{ coulomb}$$

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