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JEE

(Main)

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

2022

COMPUTER BASED TEST (CBT)

Memory Based Questions & Solutions

Date: 25 July, 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. Deuteron & proton are accelerated by accelerating potential V_D & V_P . Ratio of their de-broglie wavelength

is $\frac{\lambda_D}{\lambda_P} = \frac{\sqrt{2}}{1}$ then find the ratio $\frac{V_P}{V_D}$?

(1) 4

(2) 6

(3) 8

(4) 9

Ans. (1)

Sol. $\lambda_D = \frac{h}{m_D v_D}$

$$\frac{\sqrt{2}}{1} = \frac{\lambda_{D_1}}{\lambda_{D_2}} = \frac{\sqrt{m_P q_P V_P}}{\sqrt{m_D q_D V_D}}$$

$$2 = \frac{m_P q_P V_P}{m_D q_D V_D}$$

$$\frac{V_P}{V_D} = 4$$

2. An electron makes a transition from n^{th} state to ground state emitting wavelength λ . then the value of n is :

(1) $\sqrt{\frac{xR}{3\lambda R - 1}}$

(2) $\sqrt{\frac{2\lambda R}{2\lambda R - 1}}$

(3) $\sqrt{\frac{\lambda R}{\lambda R - 1}}$

(4) $\sqrt{\frac{6\lambda R}{\lambda R - 1}}$

Ans. (3)

Sol. electron $n^{\text{th}} \rightarrow n = 1$
 n is term of λ & R

$$\frac{1}{\lambda} = R \left[1 - \frac{1}{n^2} \right]$$

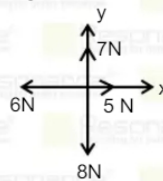
$$\frac{1}{\lambda R} = 1 - \frac{1}{n^2}$$

$$\frac{1}{n^2} = 1 - \frac{1}{\lambda R}$$

$$\frac{1}{n^2} = \frac{\lambda R - 1}{\lambda R}$$

$$n = \sqrt{\frac{\lambda R}{\lambda R - 1}}$$

3. Force required to balance all the forces given in above diagram is



(1) $\sqrt{2}$ at 45° with x-axis

(2) $\sqrt{3}$ at 45° with x-axis

(3) $\sqrt{2}$ at 60° with x-axis

(4) $\sqrt{3}$ at 60° with x-axis

Ans. (1)

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Sol. Given forces in diagram are

$$\vec{F}_1 = 5\hat{i}$$

$$\vec{F}_2 = -6\hat{i}$$

$$\vec{F}_3 = 7\hat{j}$$

$$\vec{F}_4 = -8\hat{j}$$

Let \vec{F}_5 is required force then

$$\vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \vec{F}_4 + \vec{F}_5 = 0$$

$$-\hat{i} - \hat{j} + \vec{F}_5 = 0$$

$$\therefore \vec{F}_5 = \hat{i} + \hat{j}$$

$$\therefore |\vec{F}_5| = \sqrt{2} \text{ N \& at } 45^\circ \text{ with +ve x-axis}$$

4. Flux passing through a coil is $\phi = 8t^2 - 9t + 2$. Resistance of coil is 20Ω find current in loop $t = 0.25$ sec in ampere :

(1) $\frac{1}{3}$

(2) $\frac{1}{5}$

(3) $\frac{1}{6}$

(4) $\frac{1}{4}$

Ans. (4)

Sol. $\phi = 8t^2 - 9t + 2$

$$R = 20\Omega$$

$$I = ?$$

$$|e| = \left| \frac{d\phi}{dt} \right|$$

$$|e| = 16t - 9$$

at $t = 0.25$ s
 $|e| = |16 \times 0.25 - 9| = 5V$

$\therefore I = \frac{5}{20} = \frac{1}{4} A.$

5. Electric field of EM wave is $E(x, t) = 54 \cos(2 \times 10^7 x + 6 \times 10^{15} t)$ v/m
 Maximum value of magnetic field will be
 (1) $6 \times 10^{-7} T$ (2) $12 \times 10^{-7} T$ (3) $18 \times 10^{-7} T$ (4) $4 \times 10^{-7} T$

Ans. (3)

Sol. $B_0 = \frac{E_0}{c}$
 $= \frac{54}{3 \times 10^{10}}$
 $= 18 \times 10^{-7} T$

6. Maximum height and range of a projectile thrown at an angle θ with horizontal are equal. Then the value of θ is :

- (1) $\tan^{-1}2$ (2) $\tan^{-1}4$ (3) $\tan^{-1}3$ (4) $\tan^{-1}5$

Ans. (2)

Sol. $H = \frac{u^2 \sin^2 \theta}{2g}$
 and $R = \frac{u^2 \sin 2\theta}{g}$

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$\therefore \frac{H}{R} = \frac{\tan \theta}{4}$

but given $H = R$

$\therefore \frac{\tan \theta}{4} = 1$

$\tan \theta = 4$
 $\theta = \tan^{-1}4$

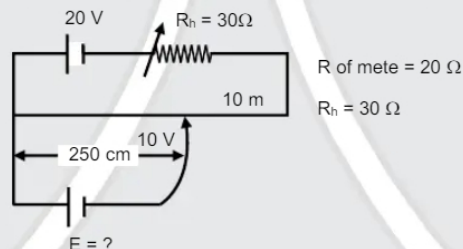
7. In a rectilinear motion speed of particle is increasing at the rate of 5 m/s per metre. Determine acceleration in m/s^2 at the instant when velocity is 20 m/s.

- (1) 50 m/s^2 (2) 100 m/s^2 (3) 200 m/s^2 (4) 40 m/s^2

Ans. (2)

Sol. $a = \frac{dv}{ds}$
 $\frac{dv}{ds} = 5$
 $a = 20 \times 5$
 $= 100 m/s^2$

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



- (1) 2 V (2) 3 V (3) 4 V (4) 5 V

Ans. (1)

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

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

Balance length = 250 cm = 2.5 metre

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

Ans 2 volt

9. Maximum and minimum Amplitude of modulated signal are 6V & 2V then modulation index will be

- Ans. (1) 50% (2) 60% (3) 80% (4) 20%
- Sol. $\mu = \frac{A_{\max} - A_{\min}}{A_{\max} + A_{\min}}$
- $$\mu = \frac{6 - 2}{6 + 2} = \frac{4}{8} = \frac{1}{2}$$
- 50%

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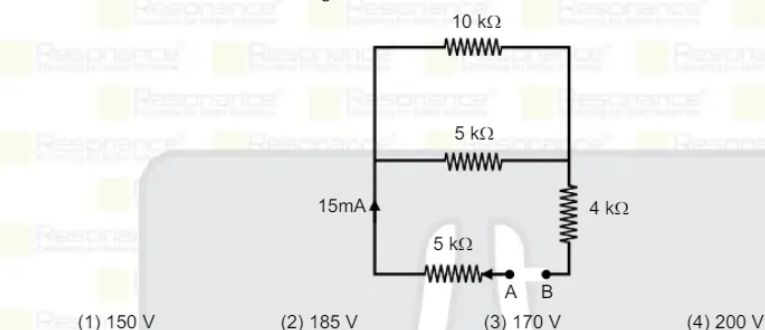
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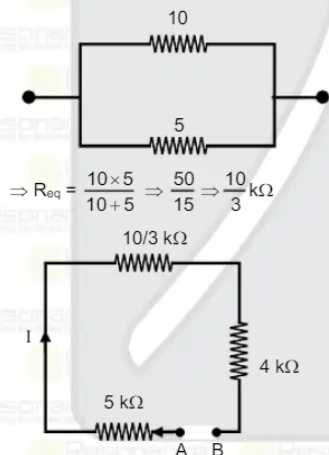
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10. In a electric circuit shown in figure. Determine $V_A - V_B$ in volt ?



- Ans. (1) 150 V (2) 185 V (3) 170 V (4) 200 V
- Sol.



$$V_A - V_B = 15 \times 10^{-3} \times 5 \times 10^3 + 15 \times 10^{-3} \times \frac{10 \times 10^3}{3} + 4 \times 10^3 \times 15 \times 10^{-3}$$

$$\Rightarrow 75 + 50 + 60$$

$$\Rightarrow 185 \text{ volt}$$

11. There is a mixture of two gases, 2 moles of He and n moles of H₂. If Rms speed of gas atoms is $\sqrt{2}$ times the speed of sound wave in this mixture. Determine the value of n.

Ans. 2

Sol. $V_{\text{rms}} = \sqrt{\frac{3RT}{M_{\text{mix}}}}$

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$$V_{\text{sound}} = \sqrt{\frac{Y_{\text{mix}} RT}{M_{\text{mix}}}}$$

$$V_{\text{rms}} = \sqrt{2} V_{\text{sound}}$$

$$\sqrt{\frac{3RT}{M_{\text{mix}}}} = \sqrt{2} \sqrt{\frac{Y_{\text{mix}} RT}{M_{\text{mix}}}}$$

$$\sqrt{3} = \sqrt{2} \sqrt{Y_{\text{mix}}}$$

$$Y_{\text{mix}} = \frac{3}{2}$$

$$\frac{n_1 C_{p1} + n_2 C_{p2}}{n_1 C_{v1} + n_2 C_{v2}} = \frac{3}{2}$$

$$\text{Put } C_{p1} = C_p \text{ of He} = \frac{5R}{2} \text{ \& } C_{p2} = C_p \text{ of H}_2 \Rightarrow \frac{7R}{2}$$

$$C_{v1} = C_v \text{ of He} = \frac{3R}{2} \text{ \& } C_{v2} = C_v \text{ of H}_2 \Rightarrow \frac{5R}{2}$$

$$\frac{2 \times \frac{5R}{2} + n \times \frac{7R}{2}}{2 \times \frac{3R}{2} + n \times \frac{5R}{2}} = \frac{3}{2}$$

$$\frac{10 + 7n}{6 + 5n} = \frac{3}{2} \quad \therefore n = 2$$

12. Length of second's pendulum at height $h = 2R$ from the surface of earth : (Take $\pi^2 = 10$ $R_g = 10 \text{ m/s}^2$)

(1) $\frac{1}{3} \text{ m}$

(2) $\frac{1}{4} \text{ m}$

(3) $\frac{1}{9} \text{ m}$

(4) $\frac{1}{6} \text{ m}$

Ans. (3)

Sol. $g' = \frac{GM}{r^2} = \frac{GM}{(R+h)^2}$

$$g' = \frac{GM}{(3R)^2}$$

$$= \frac{g}{9}$$

$$T = 2\pi \sqrt{\frac{\ell}{g}} = 2\pi \sqrt{\frac{\ell'}{(g/9)}}$$

$$2\pi \sqrt{\frac{\ell'}{g}}$$

$$\ell' = \frac{g}{9\pi^2} = \frac{1}{9}$$

13. Radium of isolated spherical capacitor is R_1 and another spherical capacitor having inner and outer radium R_1 & R_2 . If capacity of spherical capacitor is u times of capacity of isolated capacitor then ratio of $R_1 R_2$ will be.

(1) $1 + \frac{1}{n}$

(2) $1 - \frac{1}{n}$

(3) $\frac{1}{n}$

(4) $2 + \frac{1}{n}$

Ans. (2)

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Sol. $n \times 4\pi\epsilon_0 R_1 = \left[\frac{4\pi\epsilon_0 (R_2 R_1)}{R_2 - R_1} \right]$

$$n = \frac{R_2}{R_2 - R_1}$$

$$\therefore \frac{R_2 - R_1}{R_2} = \frac{1}{n} \Rightarrow 1 - \frac{R_1}{R_2} = \frac{1}{n} \Rightarrow \frac{R_1}{R_2} = 1 - \frac{1}{n}$$

14. Ratio of efficiency of Carnot cycle. Where temp of source and sink are 447°C , 147°C and 947°C & 47°C respectively

Ans. 0.565

Sol. $\eta_1 = 1 - \frac{147 + 273}{447 + 273} = 1 - \frac{420}{720} = 0.417$

$\eta_2 = 1 - \frac{47 + 273}{947 + 273} = 1 - \frac{320}{720} = 0.734$

$\therefore \frac{\eta_1}{\eta_2} = 0.565$

15. A coil have two turns, when current flows in it magnetic field at center is B_1 , when coil is again reconstructed and number of turns be comes 5 and same current flow in it. Then magnetic field at center will be B_2 then ratio of B_1 & B_2 is :

(1) $\frac{2}{25}$

(2) $\frac{1}{25}$

(3) $\frac{4}{25}$

(4) $\frac{6}{25}$

Ans. (3)

Sol. $B_1 = 2 \times \frac{\mu_0 I}{2R_1}$

and $B_2 = 5 \times \frac{\mu_0 I}{2R_2}$

$\therefore \frac{B_1}{B_2} = \frac{2}{5} \times \frac{R_2}{R_1} \dots (1)$

Now

$2 \times 2\pi R_1 = 5 \times 2\pi R_2$

$2R_1 = 5R_2 \dots (2)$

from (1) & (2)

$\frac{B_1}{B_2} = \frac{4}{25}$

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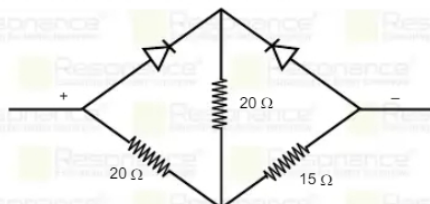
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16. Equivalent resistance of circuit will be :



(1) 15 Ω

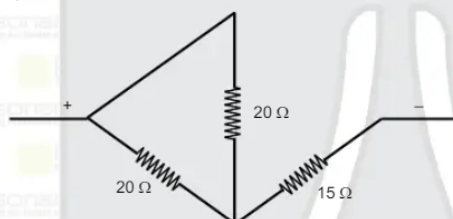
(2) 20 Ω

(3) 25 Ω

(4) 40 Ω

Ans. (3)

Sol. equivalent ckt will be



$\therefore R_{eq} = \frac{20 \times 20}{20 + 20} + 15 = 25 \Omega$

17. When object is raised to height $\frac{5R}{4}$ above earth surface. Determine the percentage charge in weight of

Ans. object on raising it to that height.

80.25%

$$\text{Sol. } g' = \frac{g}{\left(1 + \frac{h}{R}\right)^2}$$

$$g' = \frac{g}{\left(1 + \frac{5R}{4R}\right)^2}$$

$$g' = \frac{g \times 16}{81}$$

$$\frac{g'}{g} = \frac{16}{81}$$

$$\% \text{ decrease in height} = \left(\frac{g - g'}{g}\right) \times 100$$

$$= \left(1 - \frac{16}{81}\right) \times 100$$

$$\frac{65}{81} \times 100$$

$$80.25\%$$

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18. Two capacitor of capacitance $3C$ and C are connected in parallel with battery of 6 volt. Now battery is disconnected and dielectric slab of $k = 6$ is filled in capacitor of capacitance C . Now find the common potential of combination.

Ans. 2.66

Sol.



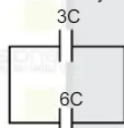
$$\text{charge on } 3C \Rightarrow 3C \times 6$$

$$\Rightarrow 18C$$

$$\text{charge on } C = C \times 6$$

$$\Rightarrow 6C$$

Now Battery is disconnected and $k = 6$ is filled in C . \therefore New value of capacitance = $kC = 6C$



$$V_{\text{common}} = \frac{Q_1 + Q_2}{C_1 + C_2}$$

$$= \frac{18C + 6C}{3C + 6C}$$

$$\Rightarrow \frac{24}{9}$$

$$\Rightarrow 2.66 \text{ volt}$$

19. Ratio of energy of photon when electron in hydrogen atom comes from 3rd excited state to 2nd excited state and energy of photon having maximum possible energy when electron in H atom comes in ground state will be $\frac{x}{x+4}$ then find value of x .

Ans. 0.2

$$\text{Sol. In first case } E_1 = \left(-\frac{13.6}{4^2}\right) - \left(-\frac{13.6}{3^2}\right) = \frac{7}{144} \times 13.6$$

$$\text{In second case } E_2 = 13.6$$

$$\frac{E_1}{E_2} = \frac{7}{144}$$

$$\frac{x}{x+4} = \frac{7}{144}$$

$$144x = 7x + 28$$

$$x = \frac{28}{137} = 0.2$$

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20. A liquid drop of radius r and density σ floats in a liquid of density ρ . If drop is half immersed in liquid then find radius of drop ' r ' if surface tension of liquid is T .

(1) $\sqrt{\frac{5T}{(2\sigma - \rho)g}}$ (2) $\sqrt{\frac{2T}{(3\sigma - \rho)g}}$ (3) $\sqrt{\frac{3T}{(\sigma - \rho)g}}$ (4) $\sqrt{\frac{3T}{(2\sigma - \rho)g}}$

Ans. (4)

Sol. weight = force of buoyancy + force of S.T.

$$\sigma \times \frac{4}{3} \pi r^3 \times g = \rho \times \frac{2}{3} \pi r^3 \times g + T \times 2\pi r$$

$$\sigma \times \frac{2r^2}{3} g = \frac{\rho r^2 g}{3} + T$$

$$\frac{r^2}{3} (2\sigma g - \rho g) = T$$

$$r = \sqrt{\frac{3T}{(2\sigma - \rho)g}}$$

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