



JEE (Main)

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

2022

COMPUTER BASED TEST (CBT) Memory Based Questions & Solutions

Date: 25 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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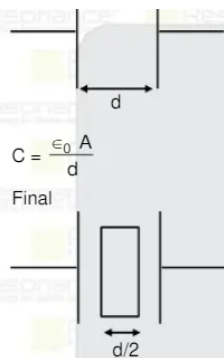
PART : PHYSICS

1. A metallic plate having thickness $d/2$ is placed between parallel plate capacitor of plate separation d . Find ratio of its new capacitance to initial capacitance :

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

Ans. (4)

Sol. Initial



$$C = \frac{\epsilon_0 A}{d}$$

Final

$$C' = \frac{\epsilon_0 A}{d - d/2} = \frac{2\epsilon_0 A}{d}$$

$$\frac{C'}{C} = 2$$

2. In YDSE, the intensity at the screen due to each slit are in the ratio of $\frac{4}{1}$. If the ratio of $\frac{(I)_{\max} + (I)_{\min}}{(I)_{\max} - (I)_{\min}}$ is $\frac{5}{x}$ then write the value of x.

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

Ans. (2)

Sol. $\frac{I_1}{I_2} = \frac{4}{1} \Rightarrow \frac{A_1}{A_2} = \frac{2}{1}$

$$\frac{(A)_{\max}}{(A)_{\min}} = \frac{2+1}{2-1} = \frac{3}{1}$$

$$\frac{(I)_{\max}}{(I)_{\min}} = \left(\frac{3}{1}\right)^2 = \frac{9}{1}$$

$$\frac{(I)_{\max} + (I)_{\min}}{(I)_{\max} - (I)_{\min}} = \frac{9+1}{9-1} = \frac{10}{8} = \frac{5}{4}$$

So, $x = 4$

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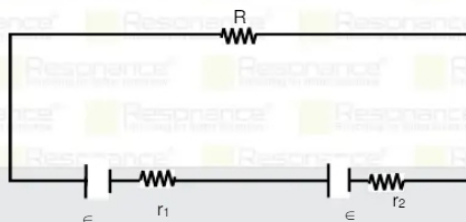
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3. If Potential difference between the terminal of the second battery is zero, then the value of R will be equal to : ($r_1 > r_2$)



- (1) $r_1 + r_2$ (2) $r_1 - r_2$ (3) $\sqrt{r_1 r_2}$ (4) $\frac{r_1^2}{r_2}$

Ans. (2)

Sol. $i = \frac{2\epsilon}{r_1 + r_2 + R}$

$$\Delta V_2 = \epsilon - ir_2 = 0$$

$$\epsilon = \frac{2\epsilon}{r_1 + r_2 + R} \times r_2$$

$$R = r_1 - r_2$$

4. If degree of freedom of an ideal gas is f then the ratio of C_P/C_V will be :
 (1) $1 + f/2$ (2) $1 + 2/f$ (3) $1 - f/2$ (4) $1 + 3/f$

Ans. (2)

Sol. $C_P/C_V = \gamma = 1 + 2/f$

5. The value of R depends on x and y as given by $R = ax^3 \cdot y^{1/2}$ if $\Delta x/x = 0.02\%$ and $\Delta y/y = 0.04\%$, here a is constant, find maximum percentage error in $\Delta R/R$:
 (1) 0.05 (2) 0.08 (3) 0.1 (4) 0.5

Ans. (2)

Sol. $R = ax^3y^{1/2}$

$$\left| \frac{\Delta R}{R} \right|_{\max} \times 100 = 3 \left(\frac{\Delta x}{x} \times 100 \right) + \frac{1}{2} \left(\frac{\Delta y}{y} \times 100 \right)$$

$$= 3(0.02) + \frac{1}{2} \times (0.04)$$

$$= 0.06 + 0.02 = 0.08\%$$

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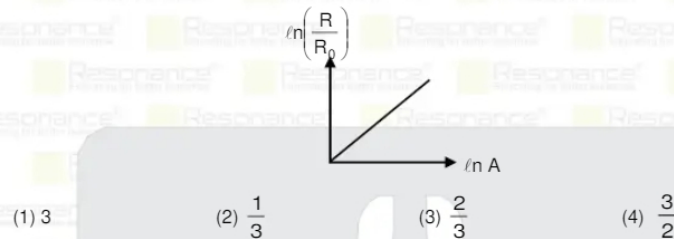
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6. For various nuclei, the graph of $\log \left(\frac{R}{R_0} \right)$ v/s $\log A$ is plotted, where R = radius of nucleus and A = mass number of the nucleus. The slope of the graph will be



Ans. (2)

Sol. $R = R_0 A^{1/3}$

$$\frac{R}{R_0} = A^{1/3} \Rightarrow \log \left(\frac{R}{R_0} \right) = \frac{1}{3} \log(A)$$

$$y = mx$$

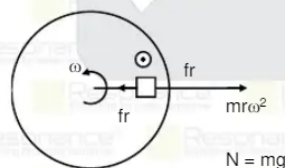
$$\text{slope} = \frac{1}{3}$$

7. A small block is placed on a horizontal rotating disc, w.r.t vertical axis passing centre of disc, at constant angular velocity ω . then find distance of block from centre of disc if disc doesn't slip.

- (1) $\frac{\mu g}{2\omega^2}$ (2) $\frac{2\mu g}{\omega^2}$ (3) $\frac{4\mu g}{2\omega^2}$ (4) $\frac{\mu g}{\omega^2}$

Ans. (4)

Sol. From FBD



for circular motion

$$f = m\omega^2 r$$

$$\mu N = m\omega^2 r$$

$$\mu mg = m\omega^2 r$$

$$\frac{\mu g}{\omega^2} = r = \frac{\mu g}{\omega^2}$$

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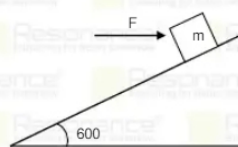
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8. A block of mass 200g is placed on smooth inclined plane as shown as figure .

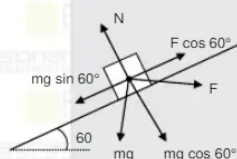


Find minimum force to keep the block stationary on the surface is \sqrt{x} N, then x will be :

- (1) 16 (2) 14 (3) 12 (4) 10

Ans. (3)

Sol.



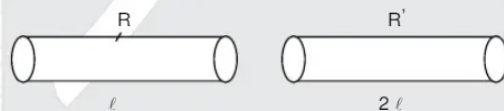
A long surface

$$F \cos 60^\circ = mg \sin 60^\circ$$

$$F = mg \tan 60^\circ$$

$$= 200 \times 10 \times \sqrt{3} \times 10^{-3} = 2\sqrt{3} = \sqrt{12} \text{ N}$$

9. A cylindrical wire is stretched to double of its initial length. Find % change as its resistance :



- (1) 100 (2) 200 (3) 300 (4) 400

Ans. (3)

Sol.



$$R' = n^2 R$$

$$R' = 4R$$

$$\% \text{ change} = \left(\frac{R' - R}{R} \right) \times 100 = \left(\frac{4R - R}{R} \right) \times 100 = 300\%.$$

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10. Mass and radius of each bodies are respectively M and R.

I_1 = Moment of inertial of a solid cylinder about its central axis

I_2 = Moment of inertial of a disc about its diameter

I_3 = Moment of inertial of a ring about its diameter

I_4 = Moment of inertial of a solid sphere about its central axis

If $2(I_1 + I_2) + I_3 = xI_4$, write the value of x

- (1) 3 (2) 4 (3) 5 (4) 8

Ans. (3)

Sol. $2\left[\frac{MR^2}{2} + \frac{MR^2}{4}\right] + \frac{MR^2}{2}$

$$2MR^2 = x\left[\frac{2}{5}MR^2\right]$$

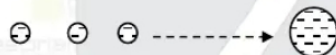
$$x = 5$$

11. 27 liquid drops, each of them charged to a potential of V, are combining to form a single drop. Find the potential of the new drop

- (1) 3V (2) 9V (3) 27 V (4) v/9

Ans. (2)

Sol.



$$R = (27)^{1/3} r = 3r$$

$$V = \frac{KQ}{R} = \frac{K(27q)}{3r} = 9 \times v \Rightarrow 9v$$

12. A turn of radius r is banked for the vehicles going at a speed of v. If radius of road is 75 m then speed of vehicle is 30 m/s. What will be the speed (in m/s) of vehicle when radius of road is 48 m?

- (1) 12 (2) 24 (3) 36 (4) 48

Ans. (2)

Sol. $\tan \theta = \frac{v^2}{Rg}$, then $v \propto \sqrt{r}$

$$\frac{v_2}{v_1} = \frac{\sqrt{r_2}}{\sqrt{r_1}} = \sqrt{\frac{48}{75}}$$

$$v_2 = \frac{4}{5} \times 30 = 24 \text{ m/s}$$

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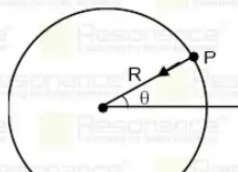
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13. A point P moves with constant speed v in counter-clockwise direction on a circular path of radius R as shown in the figure. The acceleration of 'P' at polar position (R, θ)



$$(1) \frac{v^2}{R} \cos\theta \hat{i} - \frac{v^2}{R} \sin\theta \hat{j}$$

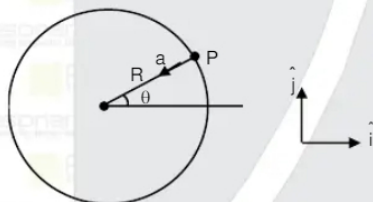
$$(2) -\frac{v^2}{R} \cos\theta \hat{i} - \frac{v^2}{R} \sin\theta \hat{j}$$

$$(3) -\frac{v^2}{R} \cos\theta \hat{i} + \frac{v^2}{R} \sin\theta \hat{j}$$

$$(4) \frac{v^2}{R} \cos\theta \hat{i} + \frac{v^2}{R} \sin\theta \hat{j}$$

Ans. (2)

Sol.



$$a = \frac{v^2}{R}$$

$$\vec{a} = a \cos\theta(-\hat{i}) + a \sin\theta(-\hat{j})$$

$$-\frac{v^2}{R} \cos\theta \hat{i} - \frac{v^2}{R} \sin\theta \hat{j}$$

14. Speed of light in a medium is $v = 2 \times 10^8$. Then permittivity of this medium will be : (given that $\mu_r = 1$ for this medium)

(1) 9/4

(2) 7/4

(3) 5/4

(4) 3/4

Ans. (1)

Sol. $\frac{1}{\sqrt{\mu_r \epsilon_r}} = 2 \times 10^8 = \frac{1}{\sqrt{\mu_r \epsilon_r} \sqrt{\mu_0 \epsilon_0}} = \frac{3 \times 10^8}{\sqrt{\epsilon_r}}$
 $\epsilon_r = 9/4$

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15. Threshold frequency for a metal is 2×10^6 Hz. Minimum value of frequency of light to produce photo electric effect will be –

(1) 2×10^6 Hz

(2) 4×10^6 Hz

(3) 10^6 Hz

(4) None of these

Ans. (1)

Sol. $KE = h\nu - h\nu_{th}$

For minimum frequency $KE = 0$

$h\nu = h\nu_{th}$

$\nu = \nu_{th}$

16. The magnetic field inside a solenoid is B if number of turns is reduced to half and current flowing in solenoid is doubled. Find the new magnetic field inside solenoid :

(1) B/2

(2) B

(3) 2B

(4) 4B

Ans. (2)

Sol. $B = \mu_0 \left(\frac{N}{\ell} \right) I$ (i)

$N' = \frac{N}{2}$ $I' = 2I$

$B' = \mu_0 \left(\frac{N/2}{\ell} \right) 2I$

$B' = B$

17. In AC circuit supply voltage is $v = 200\sin 100t$, $C = 400 \mu\text{F}$, $L = \frac{250}{3} \text{ mH}$ and $R = 100 \Omega$. Phase angle between voltage and current will be :
- (1) $\tan \phi = 0.17$ (2) $\tan \phi = 0.33$ (3) $\tan \phi = 0.25$ (4) $\tan \phi = 0.50$

Ans. (1)

Sol. $X_C = \frac{1}{\omega C} = \frac{1}{100 \times 400 \times 10^{-6}} = 25 \Omega$

$$X_L = \omega L = 100 \times \frac{250}{3} \times 10^{-3} = \frac{25}{3} \Omega$$

$$X = X_C - X_L$$

$$= 25 - \frac{25}{3} = \frac{50}{3} \Omega$$

$$\tan \phi = \frac{X}{R} = \frac{50/3}{100} = \frac{1}{6}$$

$$\tan \phi = \frac{1}{6} = 0.17$$

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18. Two particle are projected with same speed V at angle θ_1 & θ_2 . Here $\theta_1 + \theta_2 = 90^\circ$. If height & range of first particle is H_1 and R_1 and for second particle H_2 and R_2 .

Statement-I : $R_1 = R_2 = 4\sqrt{H_1 H_2}$

Statement-II : $H_1 H_2 = \frac{\mu^2 \sin^2 \theta}{2g} \cdot \frac{\mu^2 \cos^2 \theta}{2g}$

- (1) Statement-1 is True, Statement-2 is True (2) Statement-1 is False, Statement-2 is True
(3) Statement-1 is True, Statement-2 is False (4) Statement-1 is False, Statement-2 is False.

Ans. (1)

Sol. $R_1 = \frac{\mu^2 \sin 2\theta_1}{g} = R_2 = \frac{\mu^2 \sin 2\theta_2}{g}$

$$H_1 = \frac{\mu^2 \sin^2 \theta_1}{2g} = H_2 = \frac{\mu^2 \cos^2 \theta_1}{2g}$$

$$H_1 H_2 = \frac{\mu^4 \sin^2 \theta \cos^2 \theta}{2^2 g^2}$$

19. For metal cube, linear expansion coefficient is α , if temperature of cube is increased by $\Delta\theta$ then % change in volume of cube :

- (1) $300 \propto \Delta\theta$ (2) $200 \propto \Delta\theta$ (3) $200 \propto \Delta\theta$ (4) $3 \propto \Delta\theta$

Ans. (1)

Sol. $\Delta V = V_0 R \Delta\theta$

$$\frac{\Delta V}{V_0} = R \Delta\theta \quad \therefore \quad R = 3\alpha$$

$$\frac{\Delta V}{V_0} = 3 \propto \Delta\theta$$

$$\frac{\Delta V}{V_0} \% = 300 \propto \Delta\theta$$

20. Two particle A and B moving along same straight line. Position of particle A and B are given by $X_A = 2t - \alpha t^3$ and $X_B = t + \beta t^3$. At what time the velocities of both particles will be same.

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

Ans. (2)

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Sol. $V_A = \frac{dX_A}{dt} = 2 - 3\alpha t^2$

$V_B = \frac{dX_B}{dt} = 1 + 3\beta t^2$

so $V_A = V_B$

$2 - 3\alpha t^2 = 1 + 3\beta t^2$

$3(\alpha + \beta) t^2 = 1$

$t = \frac{1}{\sqrt{3(\alpha + \beta)}}$

21. Proton, neutron, electron and α -particle are projected with same kinetic energy. de-broglie wavelengths of these particles are λ_p , λ_n , λ_e and λ_α , then choose correct option:

(1) $\lambda_e < \lambda_p = \lambda_n < \lambda_\alpha$

(2) $\lambda_e = \lambda_p > \lambda_n > \lambda_\alpha$

(3) $\lambda_e > \lambda_p = \lambda_n > \lambda_\alpha$

(4) $\lambda_e > \lambda_p > \lambda_n = \lambda_\alpha$

Ans. (3)

22. A copper block of mass 80g is placed on ice cube at 0°C (specific heat 80 cal/g). If initial temperature of copper is 100°C . Find amount of water formed during cooling of ice block. (Latent heat of ice is $L = 80$ cal/g, specific heat of copper 0.1 cal/g-k) :

(1) 10 g

(2) 20 g

(3) 30 g

(4) 40 g

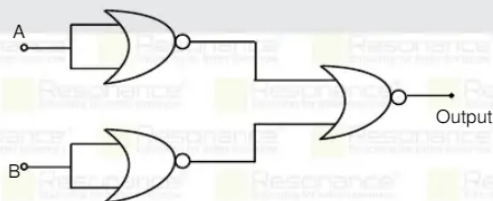
Ans. (1)

Sol. Heat given by block = heat received by ice.

M.S. $(T - 0) = M_{\text{ice}} L$

$\therefore M_{\text{ice}} = \frac{MST}{L} = \frac{100 \times 0.1 \times 80}{80} = 10 \text{ g}$

23. This combination of logic gates will behave like



(1) AND Gate

(2) OR Gate

(3) NAND Gate

(4) NOT Gate

Ans. (1)

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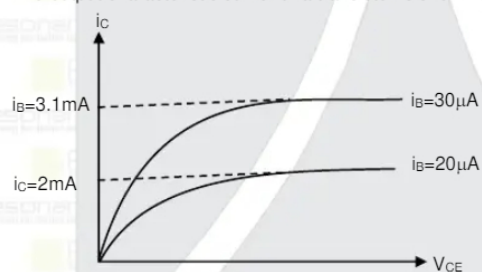
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Sol.



24. The output characteristic curve for a transistor is shown below :



If the input resistance and output resistance are respectively $10 k\Omega$ and $50 k\Omega$, then the voltage gain will be :

- (1) 500 (2) 550 (3) 600 (4) 650

Ans. (2)

Sol. $\beta_{AC} = \frac{\Delta i_c}{\Delta i_B} = \frac{(3.1 - 2) \times 10^{-3}}{(30 - 20) \times 10^{-6}} = 110$

$A_v = \beta_{AC} = \frac{R_{out}}{R_{in}} = (110) \left(\frac{500 \times 10^3}{10 \times 10^3} \right) = 550.$

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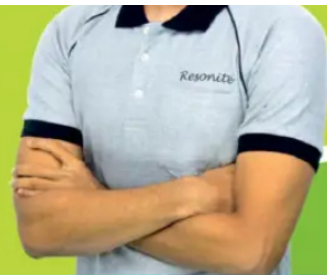


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