



JEE (Main)

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

2022

COMPUTER BASED TEST (CBT) Memory Based Questions & Solutions

Date: 27 June, 2022 (SHIFT-1) | TIME : (9.00 a.m. to 12.00 p.m)

Duration: 3 Hours | Max. Marks: 300

SUBJECT: PHYSICS

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PART : PHYSICS

1. ${}^2\text{He}^4$ and ${}^{12}\text{C}^{12}$ have same kinetic energy. Find ratio of de-Broglie wave length

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

Ans. (1)

Sol. $\lambda = \frac{h}{\sqrt{2mK}}$

$$\frac{\lambda_1}{\lambda_2} = \sqrt{\frac{m_2}{m_1}}$$

$$\frac{\lambda_1}{\lambda_2} = \sqrt{\frac{12}{4}}$$

$$\lambda_1 : \lambda_2 = \sqrt{3} : 1$$

2. A particle experiences a force of 20 N between both the plates of parallel plate capacitor. Find force on the particle when one plate of the capacitor is removed.

(1) 10 N (2) 5N (3) 40 N (4) None of these

Ans. (1)

Sol. Initially force is $F = qE = q \left(\frac{q}{A \epsilon_0} \right) = \frac{q^2}{A \epsilon_0}$

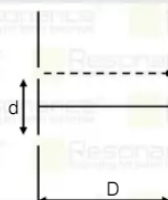
after removing one plate force is

$$F' = qE' = q \left(\frac{q}{2A \epsilon_0} \right) = \left(\frac{q^2}{2A \epsilon_0} \right)$$

$$\Rightarrow F' = \frac{F}{2}$$

$$\Rightarrow F' = \frac{20}{2} = 10\text{N}$$

3. In YDSE separation between both the slits is 0.6 mm and separation between both the slits & the screen is 80 cm. 1st dark fringe is observed on the screen in front of one of the slits find wavelength of light :



(1) 4.5×10^{-4} mm (2) 2.6×10^{-3} mm (3) 1.5×10^{-4} mm (4) 6.5×10^{-3} mm

Ans. (1)

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Sol. According to question

$$\frac{\beta}{2} = 0.3 \text{ mm} \Rightarrow \beta = 0.6 \text{ mm}$$

$$\Rightarrow \frac{\lambda D}{d} = 0.6$$

$$\Rightarrow \lambda = \frac{0.6d}{D}$$

$$\Rightarrow \lambda = \frac{0.6 \times 0.6}{800}$$

$$\Rightarrow \lambda = 4.5 \times 10^{-4} \text{ mm}$$

4. When a photon having energy 10.2 eV is absorbed by Li^{++} ion then find change in angular momentum

(1) $\frac{h}{2\pi}$

(2) $\frac{2h}{2\pi}$

(3) $\frac{3h}{2\pi}$

(4) zero

Ans. (3)

Sol. $\Delta E = 13.6 \times Z^2 \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$

$$10.2 = 13.6 \times 3^2 \left[\frac{1}{n_1^2} - \frac{1}{n_2^2} \right]$$

$$n_1 = 3 \text{ \& } n_2 = 6$$

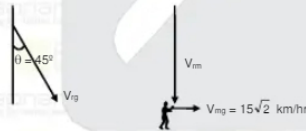
$$\text{change in angular momentum } \Delta L = \frac{n_2 h}{2\pi} - \frac{n_1 h}{2\pi} = \frac{3h}{2\pi}$$

5. A man standing on ground observes that rain is coming at an angle 45° with vertical. When he runs with

speed $15\sqrt{2}$ km/hr, rain appears to him vertical. Find speed of rain w.r.t. man :

- (1) 30 km/hr (2) $\frac{15}{\sqrt{2}}$ km/hr (3) 15 km/hr (4) $15\sqrt{2}$ km/hr

Ans. (4)
Sol.



$$V_{rm} = V_{rg} \cos 45^\circ$$

$$V_{mg} = V_{rg} \sin 45^\circ = 15\sqrt{2}$$

$$V_{rg} = 30 \text{ km/hr}$$

$$\therefore V_{rm} = \frac{30}{\sqrt{2}} \text{ km/hr} = 15\sqrt{2} \text{ km/h}$$

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6. A man running towards stationary source with speed $\frac{C}{5}$. Speed of sound is C then observed % change in frequency of sound heard by observer will be :
(1) 10% (2) 20% (3) 15% (4) 25%

Ans. (1)

Sol.



$$f' = \frac{V + V_o}{V} f$$

$$f' = \frac{C + C/5}{C} f$$

$$f' = \frac{6C}{5C} f$$

$$f' = \frac{6}{5} f$$

$$\frac{f'}{f} = \frac{6}{5}$$

$$\frac{f' - f}{f} = \frac{6 - 5}{5}$$

$$\frac{\Delta f}{f} = \frac{1}{5}$$

$$\frac{\Delta f}{f} \times 100 = \frac{1}{5} \times 100 = 20\%$$

7. A capacitor of capacitance $C = 50$ pF is charged with voltage $V = 100$ volt. Now another identical uncharged capacitor is connected with this charged capacitor. Find energy loss during the process :

- (1) 1.5×10^{-7} J (2) 2.5×10^{-7} J (3) 1.25×10^{-7} J (4) 5×10^{-7} J

Ans. (3)

Sol. Energy loss $H = \frac{1}{2} \frac{C_1 C_2}{C_1 + C_2} (V_1 - V_2)^2$

$$\Rightarrow H = \frac{1}{2} \frac{C^2}{2C} (V - 0)^2$$

$$\Rightarrow H = \frac{1}{4} C V^2$$

$$\Rightarrow H = \frac{1}{4} \times 50 \times 10^{-12} \times 100 \times 100$$

$$\Rightarrow H = 1.25 \times 10^{-7} \text{ J}$$

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8. Find velocity of leakage liquid :

$$m = 400 \text{ kg}$$

$$A = 0.5 \text{ m}^2$$

(2)

$$A = 0.5 \text{ m}^2$$

40 cm

$$a = 10^{-3} \text{ m}^2 \text{ (small)}$$

(1)

$$(1) \quad 24 \text{ m/s}$$

$$(2) \quad 20 \text{ m/s}$$

$$(3) \quad 6 \text{ m/s}$$

$$(4) \quad 10 \text{ m/s}$$

Ans.

Sol. (1) Apply Bernoulli equation at top and bottom Points (1) and (2)

$$P_0 + \frac{mg}{A} + 0 + \rho gh = P_0 + \frac{1}{2} \rho v^2 + 0$$

$$\frac{4000}{5} + 10^3 \times 10 \times 0.4 = \frac{1}{2} \times 10^3 \times v^2$$

$$8000 + 4000 = \frac{1}{2} \times 1000 \times v^2$$

$$v^2 = 24$$

$$v = \sqrt{24} \text{ m/s}$$

9. Current $I = 5 \sin(120\pi t)$ is flowing AC circuit. Find time in which current reaches to zero to maximum value.

$$(1) \quad \frac{1}{120} \text{ sec}$$

$$(2) \quad \frac{1}{60} \text{ sec}$$

$$(3) \quad \frac{1}{240} \text{ sec}$$

$$(4) \quad \frac{\pi}{60} \text{ sec}$$

Ans. (3)

$$\text{Sol. } T = \frac{2\pi}{\omega} = \frac{2\pi}{120\pi} = \frac{1}{60}$$

$$\frac{T}{4} = \frac{1}{240} \text{ sec}$$

10. A particle performing SHM with amplitude A if time taken by particle from mean position to $A/2$ is 3 sec. then time period of SHM will be :

$$(1) \quad 6 \text{ sec}$$

$$(2) \quad 12 \text{ sec}$$

$$(3) \quad 18 \text{ sec}$$

$$(4) \quad 36 \text{ sec}$$

Ans. (4)

$$\text{Sol. } X = A \sin \omega t$$

$$\frac{A}{2} = A \sin \omega t$$

$$\omega t = \frac{\pi}{6}$$

$$t = \frac{T}{12} = 3 \text{ sec.}$$

$$T = 36 \text{ sec.}$$

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11. Find maximum value of force so that block will not slide on each other.

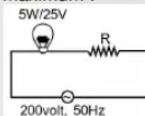


- (1) 50 N (2) 100 N (3) 150 N (4) 200 N

Ans. (1)

Sol. maximum acceleration of upper block = $\mu g = 0.5 \times 10 = 5$
 $F_{\max} = (2 + 8) \times 5 = 50\text{N}$

12. Find R for which brightness in lamp is maximum :



- (1) 575 Ω (2) 675 Ω (3) 775 Ω (4) 875 Ω

Ans. (4)

Sol. $i_{\text{rms}} = \frac{5}{25} = \frac{200}{R_B + R}$
 $R_B + R = 1000$
 $R = 1000 - R_B$
 $= 1000 - \frac{25 \times 25}{5} = 1000 - 125 = 875$

13. O_2 and H_2 is filled in a container of volume 2000 cm^3 at pressure 100 kPa and temperature 300 K. If mass of gas mixture 0.76 g. Find ratio of moles of O_2 and H_2 :

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

Ans. (2)

Sol. $V = 2000 \text{ cm}^3$
 $P = 100 \text{ kPa}$
 $T = 300 \text{ K}$
 Mass of gas mixture = 0.76 g ($\text{O}_2 + \text{H}_2$)

$$\text{Find } = \frac{n_1}{n_2} = ?$$

$$n = \frac{PV}{RT} = \frac{2 \times 10^{-3} \times 100 \times 10^3 \times 3}{25 \times 300}$$

$$n = \frac{2}{25}$$

$$n_2 = \frac{0.08(30 - 32 + 0.76)}{30}$$

$$\frac{n_1}{n_2} = \frac{0.08(32 - 0.76)}{0.08(30 - 32 + 0.76)} = \frac{32 - 0.76}{(-2 + 0.76)}$$

$$n_1(32) + n_2(2) = 0.76$$

$$n_2 + 16n_1 = 0.38$$

$$n_2 + n_1 = 0.08$$

$$15n_1 = 0.30$$

$$n_1 = \frac{0.30}{15} = 0.02$$

$$n_2 = 0.06$$

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14. A ball of density d_1 and mass M is dropped in glycerine of density d_2 . Find viscous force on the ball at terminal velocity of the ball.

- (1) $Mg \left(1 - \frac{d_2}{d_1}\right)$ (2) $Mg \left(1 - \frac{d_1}{d_2}\right)$ (3) $Mg \left(1 - \frac{d_1^2}{d_1 d_2}\right)$ (4) None of these

Ans. (1)

Sol. At the time of terminal velocity ball is in equilibrium

$$\text{i.e. } F_g = F_b + F_v$$

$$\Rightarrow F_v = F_g - F_b$$

$$\Rightarrow F_v = Mg - d_2 \frac{M}{d_1} g$$

$$\Rightarrow Mg \left(1 - \frac{d_2}{d_1} \right)$$

15. In a Carnot's engine temperature heat reservoir is 527°C and temperature of heat sink is 200 K . If heat released by the engine is 12000 kJ , then find heat absorbed by the engine.

- (1) 48000 kJ (2) 36000 kJ (3) 60000 kJ (4) 72000 kJ

Ans. (1)

Sol. $\frac{Q_2}{Q_1} = \frac{T_2}{T_1} \Rightarrow \frac{12000 \times 10^3}{Q_1} = \frac{200}{800}$

$$\Rightarrow Q_1 = \frac{12000 \times 10^3 \times 800}{200}$$

$$\Rightarrow Q_1 = 48000 \times 10^3\text{ J}$$

$$\Rightarrow Q_1 = 48000\text{ kJ}$$

16. A projectile is fired with speed 20 m/s at an angle α from horizontal. If angle made by its velocity vector after 10 sec is β , then value of $\tan \beta$ will be :

- (1) $\frac{20 \sin \alpha + 100}{20 \cos \alpha}$ (2) $\frac{20 \sin \alpha - 100}{20 \cos \alpha}$ (3) $\frac{20 \cos \alpha - 100}{20 \sin \alpha}$ (4) $20 \tan \alpha - 100$

Ans. (2)

Sol. $\tan \beta = v_y/v_x = \frac{20 \sin \alpha - 100}{20 \cos \alpha}$

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17. If two antennas of height $h_1 = 25\text{ m}$ and $h_2 = 49\text{ m}$ are used for transmission and receiver respectively, then distance between them in LOS communication system will be:

- (1) $175\sqrt{5} \times 10^2$ (2) $185\sqrt{5} \times 10^2$ (3) $192\sqrt{5} \times 10^2$ (4) $199\sqrt{5} \times 10^2$

Ans. (3)

Sol. $d = \sqrt{2Rh_1} + \sqrt{2Rh_2}$

$$= \sqrt{2R} (5 + 7)$$

$$= \sqrt{6400 \times 2 \times 10^3} (12)$$

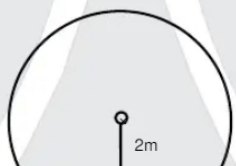
$$= 12\sqrt{64 \times 10^4 \times 20}$$

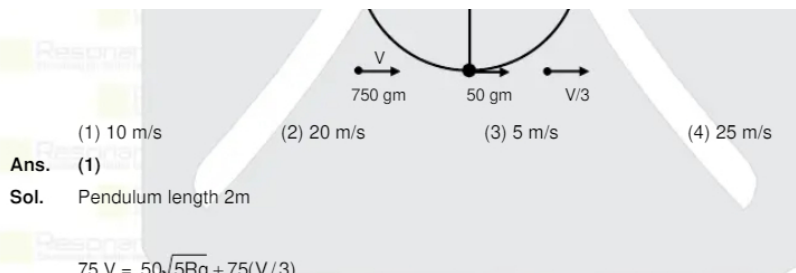
$$= 12 \times 800 \times 2\sqrt{5} = 24 \times 800\sqrt{5} = 19200\sqrt{5}$$

$$= 192\sqrt{5} \times 10^2$$

$$K = 192$$

18. Mass of bob in a pendulum is 50 gram . A bullet of 75 gram strikes with speed v and emerges with speed $v/3$ as shown in figure. If pendulum bob just complete the vertical circle then speed of bullet will be:





Ans. (1)

Sol. Pendulum length 2m

$$75 V = 50\sqrt{5Rg} + 75(V/3)$$

$$75\left(\frac{2V}{3}\right) = 50\sqrt{5 \times 2 \times 10}$$

$$75\left(\frac{2V}{3}\right) = 50 \times 10$$

$$V = \frac{500 \times 3}{150} = \frac{500}{50} = 10 \text{ m/s}$$

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19. Two blocks of 10 kg and 30 kg are placed at (0, 0) and (x, 0) respectively. If 10 kg block is shifted by 6 cm towards 30 kg block then by how much distance 30 kg is to be shifted so that COM will not shift.



- (1) 2 cm left (2) 4 cm left (3) 4 cm right (4) 0.5 cm left

Ans. (1)

Sol. $\frac{m_1 \Delta x + m_2 \Delta x_2}{m_1 + m_2} = \Delta x_{cm}$

$$10(6) + 30(\Delta x_2) = 0$$

$$\Delta x_2 + 30(\Delta x_2) = 2 \text{ cm}$$

20. Match the Following option

(A) Infrared waves

(B) UV Rays

(C) x-Rays

(D) Microwaves

(1) A - 4, B - 2, C - 3, D - 1

(3) A - 2, B - 2, C - 3, D - 4

1. Radar

2. Sterilizing

3. Crystal structure

4. Green house effect

(2) A - 3, B - 4, C - 3, D - 1

(4) A - 1, B - 2, C - 3, D - 4

Ans. (1)

21. Light ray is incident at angle double of angle of refraction from air to medium of refractive index $\sqrt{2}n$ then find angle of incidence

(1) $\sin^{-1} \sqrt{\frac{n}{2}}$

(2) $2 \sin^{-1} \sqrt{\frac{n}{2}}$

(3) $\cos^{-1} \sqrt{\frac{n}{2}}$

(4) $2 \cos^{-1} \sqrt{\frac{n}{2}}$

Ans. (4)

Sol. $1 \sin 2r = \sqrt{2}n \sin r$

$$2 \sin r \cos r = \sqrt{2}n \sin r$$

$$\cos r = \frac{\sqrt{\frac{n}{2}}}{\sqrt{2}}$$

$$r = \cos^{-1} \sqrt{\frac{1}{2}}$$

$$i = 2r = 2 \cos^{-1} \sqrt{\frac{n}{2}}$$

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22. A cell is shorted with a resistance of $8\ \Omega$. Balanced length for potential difference across the cell is 3cm. If the cell is shorted with $4\ \Omega$ resistance balance length becomes 2 cm. find internal resistance of the cell.
(1) $8\ \Omega$ (2) $4\ \Omega$ (3) $2\ \Omega$ (4) $1\ \Omega$

Ans. (1)

Sol. $iR = x\ell$

$$\Rightarrow \frac{\varepsilon}{R_1 + r} R_1 = x\ell_1$$

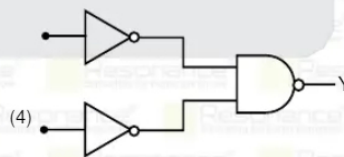
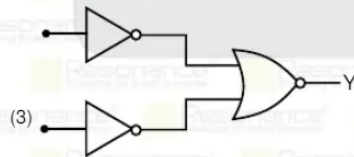
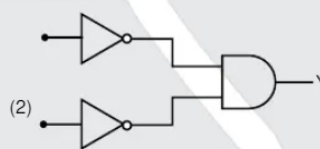
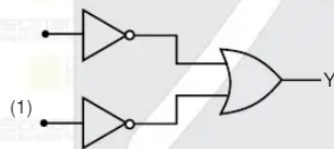
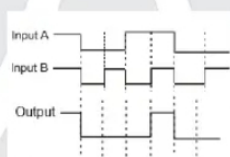
$$\Rightarrow \frac{\varepsilon}{1 + \frac{r}{R_1}} = x\ell_1 \quad \& \quad \frac{\varepsilon}{1 + \frac{r}{R_2}} = x\ell_2$$

Dividing the Equation,

$$\frac{1 + \frac{r}{R_1}}{1 + \frac{r}{R_2}} = \frac{\ell_2}{\ell_1} = \frac{2}{3} \Rightarrow 3 + \frac{3r}{8} = 2 + \frac{2r}{4} \Rightarrow \frac{r}{2} - \frac{3r}{8} = 1$$

$$\Rightarrow r = 8\ \Omega$$

23. The logic circuit shown below has the input waveforms 'A' and 'B' as shown. Pick out the correct out put waveform.



Ans. (3)

Sol. $Y = \overline{A + B} = A.B$

it is AND gate.

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