

JEE (MAIN) 2025

MEMORY BASED QUESTIONS & TEXT SOLUTION

SHIFT-1

DATE & DAY: 04th April 2025 & Friday

PAPER-1

Duration: 3 Hrs.

Time: 09:00 – 12:00 IST

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SUBJECT: PHYSICS

Selections in JEE (Advanced)/
IIT-JEE Since 2002

52395

Selections in JEE (Main)/
AIEEE Since 2009

257576

Selections in NEET (UG)/
AIPMT/AIMS Since 2012

22494

Admission Open for 2025-26

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PART : PHYSICS

1. Mean free path for an ideal gas is to be observed 2×10^{-7} m while average speed of molecules of gas is observed to be 600 m/s. then frequency of collision is near by
(1) 4×10^7 Hz (2) 1.2×10^7 Hz (3) 3×10^8 Hz (4) 3×10^{10} Hz

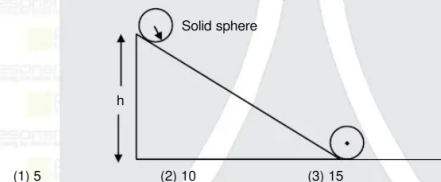
Ans. (3)

Sol. Given $\lambda = 2 \times 10^{-7}$
 $v = 600$ m/s

$$\tau = \frac{2 \times 10^{-7}}{600} = \frac{1}{3} \times 10^{-9}$$

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2. A ring and a solid sphere released from rest from same height on enough rough inclined surface. Ratio of their speed when they reach at bottom is $\sqrt{\frac{7}{x}}$ m/s. Then x is :



Ans. (2)

Sol. For solid sphere total energy conservation
 $E_c = E_t$

$$mgh = \frac{1}{2} I \omega^2 + \frac{1}{2} m v^2$$

$$mgh = \frac{1}{2} \left(\frac{2}{5} m R^2 \right) \omega^2 + \frac{1}{2} m v^2$$

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$$gh = \frac{1}{5} R^2 \omega^2 + \frac{1}{2} v^2$$

$$gh = \frac{7}{10} v^2$$

$$\sqrt{\frac{10}{7}} gh = v_s \quad \dots(1)$$

V / r

For ring

$$mgh = \frac{1}{2} mR^2 \omega^2 + \frac{1}{2} mV^2$$

$$gh = \frac{1}{2} R^2 \frac{V^2}{R^2} + \frac{1}{2} V^2$$

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$$V_{ring} = gh \dots (2)$$

$$\frac{V_{ring}}{V_{solid}} = \frac{gh}{gh} = \frac{7}{10}$$

3. Which of the following is ratio of 5th bohr radius of He⁺ and Li²⁺ ?

- (1) $\frac{2}{3}$ (2) $\frac{3}{2}$ (3) $\frac{9}{4}$ (4) $\frac{4}{9}$

Ans. (2)

$$r_n = n^2 a_0$$

$$\text{Sol. } r_n \propto \frac{n^2}{Z}$$

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4. If ratio of electric flux and magnetic flux dimension of is $M^p L^q T^r A^s$ then (where, E represent electric field and B represent magnetic field)

- (1) (Q,R) $\rightarrow$ [1,1] (2) (Q,R) $\rightarrow$ [1,2] (3) (Q,R) $\rightarrow$ [1,-1] (4) (Q,R) $\rightarrow$ [1,0]

Ans. (3)

$$\text{Sol. } \frac{E}{B} = C$$

[where, c = speed of light]
dimension of $\frac{E}{B} \Rightarrow [mOL^{-1} T^{-2}]$

$$\text{dimension of } \left(\frac{E}{B} \right) \Rightarrow [M^1 L^1 T^{-1}]$$

$$Q \Rightarrow 1$$

$$R \Rightarrow -1$$

5. Distance between object and image is 30 cm by using spherical mirror of found length $\frac{x}{4}$, $m = -\frac{1}{3}$ there

find 'x'

- (1) 15 (2) 30 (3) 45 (4) 75

Ans. (3)

$$\text{Sol. } m = -\frac{1}{3} = -\frac{v}{u} \quad |v - u| = 30$$

$$u = \frac{30}{4} = 7.5$$

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$$\frac{1}{f} = \frac{1}{v} + \frac{1}{u} \rightarrow v = \frac{4}{3}$$

$$\frac{1}{f} = \frac{1}{15} + \frac{1}{45} \quad v = \frac{45}{3} \Rightarrow 15$$

$$= \frac{3+1}{45}$$

$$f = \frac{45}{4}, \quad \frac{x}{4} = \frac{45}{4}, \quad x = 45 \text{ Ans.}$$

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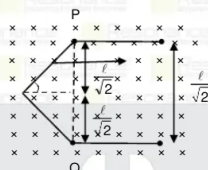
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6. A rods of equal length are joined as shown in the figure. Combined system is moving with speed 10 cm/s

in a perpendicular magnetic field of $\frac{1}{\sqrt{2}}$ tesla. Find emf induced between point P and Q in millivolts

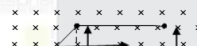
(given $l = 10$ cm)



- (1) 30 (2) 10 (3) 35 (4) 25

Ans. (2)

Sol.



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$$E = Bv/\sqrt{2}$$

$$= \frac{1}{\sqrt{2}} \times 10 \times 10^{-2} \times 10 \times 10^{-2} \times \sqrt{2} = 10 \text{ mV}$$

7. If slit width is increased to .02 to 0.4 then percentage change fringe width will be.
 (1) 20% (2) 25% (3) 60% (4) 50%

Ans. (4)

Sol. $\frac{\Delta\beta}{\beta} = \frac{\Delta\frac{1}{d}}{\frac{1}{d}} \times 100$

$$= \frac{\frac{1}{.04} - \frac{1}{.02}}{\frac{1}{.02}} \times 100$$

$$= \frac{.02}{.04 \times .02} \times .02 \times 100$$

$$= 50\%$$

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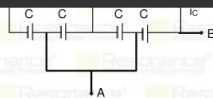
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- (1) 48 m ϕ (2) 64 m ϕ (3) 8 m ϕ (4) 16 m ϕ

Ans. (2)

Sol. $A - B = C + C + C + C$
 $= 4C$
 $= 4 \times 15 \mu\phi$
 $= 64 \mu\phi$

9. Find ratio of Speed of sound in H_2 , Me then, CO_2 If ratio of pressure and density are same for each gas

- (1) $\sqrt{\frac{5}{3}} \cdot \sqrt{\frac{4}{3}} \cdot \sqrt{\frac{7}{5}}$ (2) $\sqrt{\frac{5}{3}} \cdot \sqrt{\frac{3}{4}} \cdot \sqrt{\frac{7}{5}}$ (3) $\sqrt{\frac{5}{3}} \cdot \sqrt{\frac{4}{3}} \cdot \sqrt{\frac{6}{5}}$ (4) $\sqrt{\frac{3}{5}} \cdot \sqrt{\frac{4}{3}} \cdot \sqrt{\frac{7}{5}}$

Ans. (1)

Sol. Speed of sound in a gas = $\sqrt{\frac{\gamma RT}{M}} = \sqrt{\frac{\gamma p}{\rho}}$

γ for $H_2 \rightarrow \frac{5}{3}$, γ for $CO_2 = \frac{7}{5}$, γ for Me then $\frac{4}{3}$

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Speed of sound in H_2 $V_{H_2} = \sqrt{\frac{\frac{5}{3} RT}{4}}$

$V_{H_2} = \sqrt{\frac{5}{12} RT}$

Speed of sound in CO_2 $V_{CO_2} = \sqrt{\frac{\frac{4}{3} RT}{44}}$

$V_{CO_2} = \sqrt{\frac{RT}{33}}$

Ratio $\frac{V_{H_2}}{V_{CO_2}} = \frac{\sqrt{\frac{5}{12} RT}}{\sqrt{\frac{RT}{33}}}$

$\Rightarrow \sqrt{\frac{5 \times 33}{12}}$
 $= \frac{\sqrt{55}}{2}$

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10. It AC current $i = 100\sqrt{2} \sin 100\pi t$ Find frequency & current

- (1) 100 A, 50 Hz (2) $100\sqrt{2}$ A, 50 Hz (3) 100 A, 100 Hz (4) $100\sqrt{2}$ A, 100 Hz

Ans. (1)

Sol. $i = 100 \text{ A}$

11. In spherical mirror distance between RO and RI is 30cm and magnificant is $-\frac{1}{2}$, how much object shift

so magnification become $-\frac{1}{3}$

(1) $\frac{40}{3}$

(2) $\frac{60}{3}$

(3) $\frac{90}{3}$

(4) $\frac{80}{3}$

Ans. (4)

Sol. Shift = $\left| \frac{80}{3} - 20 \right| = \frac{20}{3}$

Towards mirror

$$m_1 = \frac{1}{2} = \frac{y}{x}$$

$$x = 2y$$

$$x + y = 30$$

$$y = 10$$

$$x = 20$$

$$\frac{1}{f} = \frac{1}{-10} + \frac{1}{-20}$$

$$= -\frac{3}{20}$$

$$3y = x$$

$$-\frac{3}{-20} = \frac{1}{-x} - \frac{1}{y}$$

$$\frac{3}{20} = \frac{4}{3y}$$

$$t = \frac{80}{9}$$

$$x = \frac{80}{3}$$

12. If $\frac{1}{5}$ th of volume of closed organ pipe is filled in water. Then percentage change in frequency

(1) 25%

(2) -25%

(3) 20%

(4) -20%

Ans. (1)

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Sol.

$$f = \frac{v}{4\ell} \times \frac{4}{4} \Rightarrow \frac{4v}{16\ell}$$

$$f' = \frac{v}{4} \Rightarrow \frac{5v}{4\ell}$$

$$\% \text{ change in frequency} = \frac{f' - f}{f} \times 100$$

$$\Rightarrow \frac{\frac{5v}{4\ell} - \frac{4v}{16\ell}}{\frac{4v}{16\ell}} \times 100$$

$$= \frac{1}{4} \times 100$$

$$= 25\% \quad \text{Ans.}$$

13. An electric dipole with charges $2\mu\text{C}$ and separation 20 cm is placed closed to an infinitely charge non-conducting sheet with surface charge density 100 cm^2 . Find the torque acting on the dipole if the dipole makes an angle 30° with the normal to the sheet?

(1) $\frac{12}{\epsilon_0} \times 10^{-5}\text{ Nm}$

(2) $\frac{2}{\epsilon_0} \times 10^{-5}\text{ Nm}$

(3) $\frac{4}{\epsilon_0} \times 10^{-5}\text{ Nm}$

(4) $\frac{1}{\epsilon_0} \times 10^{-5}\text{ Nm}$

Ans. (4)

Sol.

$$100\text{C/m}^2$$

$$30^\circ$$

$$\tau = PE \sin 30^\circ$$

$$\Rightarrow (\text{ad}) \left(\frac{6}{2\epsilon_0} \right) \frac{1}{2}$$

$$= \frac{2 \times 10^{-6} \times 0.2}{\epsilon_0} \times \frac{100}{y}$$

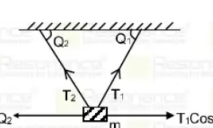
$$= \frac{1}{\epsilon_0} \times 10^{-5}$$

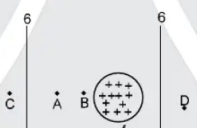
14. **Assertion :** KE required to project body from surface of earth to infinity is $mg \frac{R}{2}$
Reason : Highest PE is zero between surface of earth and infinity
 (1) (A) and (R) are correct and (R) is correct explanation of (A)
 (2) (A) and (R) both are correct and (R) is not correct explanation of (A)
 (3) (A) is correct but (R) is incorrect
 (4) (A) is incorrect but (R) is correct
Ans. (4)
15. **Assertion :** In photoelectric effect, if intensity of monochromatic light is increased then stopping potential increase
Reason : Increased intensity results in increment of photocurrent.
 (1) Assertion is correct, Reason is correct and Reason is explanation of Assertion
 (2) Assertion is correct, Reason is correct and Reason is not correct explanation of Assertion

- Ans. (3)**
16. In two different capillary tube $\frac{\cos \theta_1}{\cos \theta_2} = z$ which option is correct
 (1) z is negative, if first meniscus is concave & second convex
 (2) z is negative, if first meniscus is convex & second concave
 (3) z is positive, if both are convex
 (4) z is positive, if first meniscus is convex & second concave
Ans. (2)
Sol. (1) $\Rightarrow$ convex
 (2) $\Rightarrow$ concave.
17. Two simple pendulums with angular amplitudes θ_1 and θ_2 have length of strings as l_1 and l_2 respectively. Choose the correct option's if the maximum angular acceleration are same
 (1) $\theta_2 \times l_2 = \theta_1 \times l_1$ (2) $\theta_1 \times l_2 = \theta_2 \times l_1$
 (3) $\theta_1 \times l_2^2 = \theta_2 \times l_1^2$ (4) $\theta_2 \times l_2^2 = \theta_1 \times l_1^2$
Ans. (2)
Sol. $\alpha_{1\max} = \alpha_{2\max}$
 $\tau = mg \sin \theta = I \alpha$
 $mg l \theta = I \alpha$

- $\theta_1 \times l_2 = \theta_2 \times l_1$
18. A block of mass m kg is connected to two strings as shown. If $T_1 = \sqrt{3} T_2$, then choose correct option
 (1) $Q_1 = 60^\circ, Q_2 = 30^\circ T_1 = \frac{mg}{2}$ (2) $Q_1 = 60^\circ, Q_2 = 30^\circ T_2 = \frac{mg}{2}$
 (3) $Q_1 = 30^\circ, Q_2 = 60^\circ T_1 = \frac{3mg}{4}$ (4) $Q_1 = 30^\circ, Q_2 = 60^\circ T_2 = \frac{3mg}{4}$
Ans. (2)

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- Sol.**
- 
- $T_2 \cos Q_2 \leftarrow T_1 \cos Q_1 \rightarrow$
- $T_1 \cos Q_1 = T_2 \cos Q_2$
 $\sqrt{3} \cos Q_1 = \cos Q_2$
 $Q_1 = 60^\circ, Q_2 = 30^\circ$
 $T_2 \sin Q_2 = T_1 \sin Q_1 = mg$
 $\frac{T_2}{2} + \frac{T_1 \sqrt{3}}{2} = mg$
 $\frac{T_2}{2} + \frac{3T_2}{2} = mg$
 $T_2 = \frac{mg}{2}$

19. An arrangement shown has two non-conducting sheet with charge density σ and a non-conducting sphere with volume charge density ρ . choose the correct relation between the magnitude of electric field at A, B, C, and D.
- 
- (1) $E_A \neq E_B$ $E_D > E_C$ (2) $E_A = E_B$ $E_D > E_C$
 (3) $E_A \neq E_B$ $E_C > E_D$ (4) $E_A = E_B$ $E_D > E_C$

Ans. (1)

20. If current $(i) = 0.02t + 0.01$, flow of charge from $t = 1$ to $t = 2$

(1) 0.04 (2) 0.02 (3) 0.01 (4) 0.06

Ans. (1)

$$\text{Sol. } q = \int i dt = \left(0.02 \frac{t^2}{2} + 0.01t \right)_1^2 \\ = (0.01 \times 4 + 0.02) - (0.01 \times 1 + 0.01) = 0.04 \text{ Ans}$$

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21. Light of energy E incident on bob of simple pendulum, Find its amplitude

$$\text{Ans. } \sqrt{\frac{2Ea}{mg}}$$

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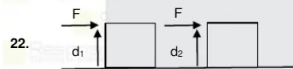
$$Ea = \frac{1}{2} m(\omega A)^2$$

$$\omega = \sqrt{\frac{g}{l}}$$

$$Ea = \frac{m}{2} A^2 \times \frac{g}{l}$$

$$A = \sqrt{\frac{2Ea l}{mg}} \text{ Ans.}$$

a = absorption power



22.

$$d_2 = 2d_1$$

$$h_2 = 2h_1$$

$$\eta_1 = 4 \times 10^9$$

$$\eta_2 = x \times 10^9 \text{ then find value of } x.$$

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$$\eta_2 = \left(\frac{d_1}{d_2} \right)^2 \times \frac{h_1}{h_2}$$

$$\eta_2 = 4 \times 10^9 \times \left(\frac{1}{2} \right)^2 \times \frac{1}{2}$$

$$\eta_2 = 0.5 \times 10^9$$

$$x = 0.5$$

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AIR 31

VISHESH COURSE

For 12th Passed Students



JEE (Adv.) 2024
ISHAAN GUPTA

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- Total No. of Lectures: **630** (P: 210 | C: 210 | M: 210)
- Duration of One Lecture: **1.5 Hrs.** (90 Minutes)
- Classroom Teaching Hours.: **945 Hrs.**
- Testing Duration: **51 Hrs.**
- Total Academic Hours.: **996 Hrs.**

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CLASS STARTS
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TARGET: JEE (Main) 2026

ABHYAAS COURSE
For 12th Passed Students

Course Features:

- Course Duration: **39 Weeks**
- Total No. of Lectures: **577** (P: 192 | C: 193 | M: 192)
- Duration of One Lecture: **1.5 Hrs.** (90 Minutes)
- Classroom Teaching Hours.: **865 Hrs.**
- Testing Duration: **36 Hrs.**
- Total Academic Hours.: **901 Hrs.**

AIR 102
JEE (Main) 2024
RITAM BANERJEE



SCHOLARSHIP UPTO 100%
on the basis of Class 10th & 12th &
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CLASS STARTS
7th April 2025

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