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JEE (Main) PAPER-1 (B.E./B. TECH.) 2023

COMPUTER BASED TEST (CBT) Memory Based Questions & Solutions

Date: 25 January, 2023 (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. Resistance of a cylindrical wire is 5Ω . If length is increased by 5 times by stretching then new resistance is :

- (1) 100Ω (2) 125Ω (3) 150Ω (4) 175Ω

Ans. (2)

Sol. $R_1 = \frac{\rho l}{A} = \frac{\rho l}{V}$

$R \propto l^2$

$\frac{R_2}{R_1} = \left(\frac{5l}{l}\right)^2 = 25$

$R_2 = 25 \times 5$

2. A diatomic gas, which has vibrational degree of freedom then molar heat capacity at constant volume is:

- (1) $\frac{7R}{2}$ (2) $\frac{3R}{2}$ (3) $\frac{5R}{2}$ (4) $\frac{3R}{2}$

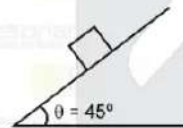
Ans. (1)

Sol. $C_v = \frac{fR}{2}$

here $f = 3 + 2 + 2 = 7$

$C_v = \frac{7R}{2}$

3.



Force required to push the box upward is two times of force required to slide down.

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

Ans. (2)

Sol. $mg \sin\theta + \mu mg \cos\theta = 2(mg \sin\theta - \mu mg \cos\theta)$

$mg \sin\theta = 3\mu mg \cos\theta$

$\tan\theta = 3\mu$

$\mu = \frac{1}{3}$

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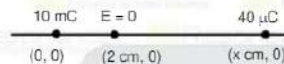
PAGE # 1

4. A $10 \mu\text{C}$ point charge is placed at origin. To get electric field strength zero at 2 cm on +ve x-axis. Where should we place $40 \mu\text{C}$ charge on the x-axis

- (1) 4 (2) 8 (3) 10 (4) 6

Ans. (4)

Sol.



At $x = 2$; $E_1 + E_2 = 0$

$\frac{k(10\mu\text{C})}{(2 \times 10^{-2})^2} = \frac{k \times 40}{((x - 2) \times 10^{-2})^2}$

$x = 6$

5. Two parallel wire with spacing of 7 cm carrying current of 8A and 15A in opposite direction. Calculate the magnetic field at a mid-point between the wire ?

- (1) $13.14 \times 10^{-5} \text{ T}$ (2) $13.14 \times 10^{-5} \text{ T}$ (3) $12.57 \times 10^{-4} \text{ T}$ (4) $12.57 \times 10^{-5} \text{ T}$

Ans. (2)

Sol. $B_{\text{net}} = B_1 + B_2$

$= -\frac{\mu_0}{4\pi} (i_1 + i_2)$

$$2\pi d \times 10^{-7} \times \frac{2 \times 10^{-7} (8+15)}{3.5 \times 10^{-2}} = 13.14 \times 10^{-5} \text{ T}$$

6. If $x = 2t^2$ then find the velocity at $t = 2$ sec.
 (1) 4 (2) 2 (3) 8 (4) 10

Ans. (3)

Sol. $V = dx/dt = 4t$
 $V(2) = 4 \times 2 = 8 \text{ m/s}$

7. A LCR circuit in which $X_L = 70$ for inductor, $X_C = 130$ for capacitor and resistance of circuit is 80Ω . is connected with an AC source of (220 V, 50 Hz). Calculate the power factor of the circuit.
 (1) $\frac{4}{5}$ (2) $\frac{3}{5}$ (3) $\frac{3}{4}$ (4) $\frac{2}{3}$

Ans. (1)

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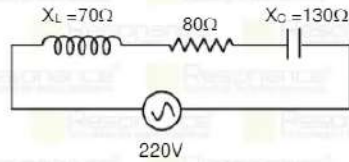
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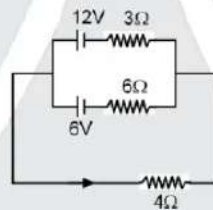
Sol.



$$\text{Power factor; } \cos\phi = \frac{R}{Z} = \frac{R}{\sqrt{R^2 + (X_L - X_C)^2}}$$

$$= \frac{80}{\sqrt{80^2 + (130 - 70)^2}} = \frac{80}{100} = \frac{4}{5}$$

8. In an electrical circuit, there are two batteries of emf 12 V and 6 V having internal resistance of 3Ω and 6Ω respectively, is connected with a resistance of 4Ω as shown in the figure. Find the current passing through 4Ω resistance :



- (1) 0.6 A (2) 1.9 A (3) 1.67 A (4) 1.2 A

Ans. (3)

Sol. $E_{\text{eq}} = \frac{12}{\frac{3}{1} + \frac{6}{1}} = 10 \text{ V}$ $r_{\text{eq}} = 2 \Omega$

$$I_{4\Omega} = \frac{10}{2+4} = \frac{5}{3} \text{ Amp.} = 1.67 \text{ Amp.}$$

9. A particle of mass 1 kg collides elastically with a particle of mass 3 kg at rest. Velocity of 1 kg particle

after collision is 1 m/s opposite to initial velocity then find initial velocity of 1 kg mass particle :

- (1) 4 m/s (2) 3 m/s (3) 2 m/s (4) 1 m/s





Ans. (3)

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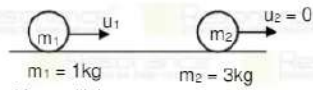
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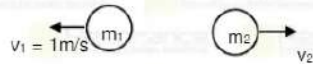
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Sol. Before collision



After collision



$$m_1 v_1 = m_1 \times (-1) + 3 \times v_2$$

$$v_1 = -1 + 3v_2 \quad \dots(1)$$

$$e = \frac{v_2 - (-1)}{+v_1 - 0} \quad (e = 1)$$

$$+v_1 = v_2 + 1$$

$$v_2 = v_1 - 1$$

$$v_1 = -1 + 3(v_1 - 1)$$

$$v_1 = -4 + 3v_1$$

$$2v_1 = +4$$

$$v_1 = +2 \text{ m/s}$$

10. A particle is doing S.H.M. If covers half of it's amplitude in 2 sec from mean position. How much time it will take to go from half amplitude point to extreme position.

- (1) 24 (2) 12 (3) 4 (4) 6

Ans. (3)

Sol. Time taken by particle to reach half of amplitude from mean position is equal to $\frac{T}{12}$

$$\frac{T}{12} = 2 \Rightarrow T = 24 \text{ sec}$$

Time taken from half amplitude to extreme position

$$\frac{T}{6} = \frac{24}{6} = 4 \text{ Sec}$$

11. Match the matrix

- | | |
|----------------|---------------------------------------|
| (1) Adiabatic | (a) no change in internal energy |
| (2) Isothermal | (b) no heat exchange with surrounding |
| (3) Isochoric | (c) no change in pressure |
| (4) Isobaric | (d) work done is zero |
- (1) (1) - (c), (2) - (b), (3) - (d), (4) - (a) (2) (1) - (b), (2) - (c), (3) - (d), (4) - (a)
- (3) (1) - (a), (2) - (b), (3) - (c), (4) - (d) (4) (1) - (b), (2) - (a), (3) - (d), (4) - (c)





Ans. (4)

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PAGE # 4

12. A moving coil galvanometer of coil $N=200$ is connected to torsional spring of $K = 100$ SI units and placed in $B = 0.01$ T. If deflection is 0.05 rad at $I = 4$ mA. Find area of coil :

- (1) 625 (2) 750 (3) 900 (4) 450

Ans. (1)

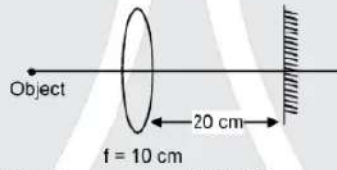
Sol. $\tau_{\text{spring}} = \tau_{\text{magnetic field}}$

$$k\theta = M \cdot B \sin 90^\circ$$

$$k\theta = NiA B$$

$$A = \frac{k\theta}{NiB} = \frac{100 \times 0.05}{200 \times 4 \times 10^{-3} \times 0.01} = 625 \text{ m}^2$$

13. Find the distance of object from lens, so that image formed after the reflection from the plane mirror is 5 cm behind mirror :



- (1) 20 cm (2) 15 cm (3) 30 cm (4) 10 cm

Ans. (3)

Sol. Final image is 5 cm behind mirror means image formed by lens is 5 cm in front of mirror.

$\therefore v = 15$ cm for lens

$$\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$$

$$\frac{1}{15} - \frac{1}{u} = \frac{1}{10}$$

$$u = -30 \text{ cm}$$

14. Match the following physical quantities with their dimensions.

Physical quantity	Dimensions
(A) Y : Young modulus	(P) ML^2T^{-1}
(B) ϕ : Work function	(Q) $ML^{-1}T^{-2}$
(C) η : Viscosity	(R) ML^2T^{-2}
(D) h : plank's constant	(S) $ML^{-1}T^{-1}$
(1) A-Q, B-R, C-P, D-S	(2) A-Q, B-R, C-S, D-P
(3) A-P, B-Q, C-R, D-S	(4) A-P, B-R, C-Q, D-S

Ans. (2)

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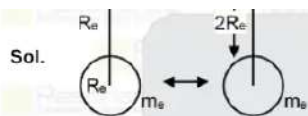
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15. An object of mass m is place at a height R_0 from the surface of earth. Find the increase in potential energy of the object. If the height of the object is increased to $2R_0$ from the surface :

- (1) $\frac{mgR}{4}$ (2) $\frac{mgR}{6}$ (3) $\frac{mgR}{2}$ (4) $\frac{3mgR}{8}$

Ans. (2)





$$\Delta\mu = v_f - \mu_i$$

$$= \frac{-Gm_e m}{3R_e} - \left(-\frac{Gm_e m}{2R_e} \right)$$

$$= \frac{Gm_e m}{R_e} \left[\frac{1}{2} - \frac{1}{3} \right]$$

$$= \frac{Gm_e m}{6R_e} = \frac{mgR}{6} \quad \left(g = \frac{Gm_e}{R_e} \right)$$

$$= \frac{mgR}{6}$$

16. A parallel plate capacitor has capacitance C . If a dielectric of dielectric constant k and width half of the spacing between the plates is inserted between the plates. Calculate the new capacitance of the capacitor:

(1) $\frac{2C(1+k)}{k}$

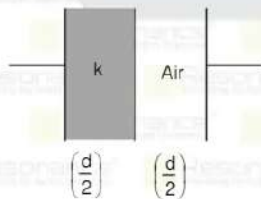
(2) $\frac{C(1+k)^2}{k}$

(3) $\frac{2Ck}{1+k}$

(4) $\frac{Ck^2}{1+k}$

Ans. (3)

Sol.



$$C_1 = \frac{2\epsilon_0 Ak_1}{d}$$

$$C_2 = \frac{2\epsilon_0 Ak_2}{d}$$

C_1 and C_2 are in series

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$$\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2}$$

$$= \frac{d}{2\epsilon_0 Ak_1} + \frac{d}{2\epsilon_0 Ak_2}$$

$$= \frac{d}{2\epsilon_0 A} \left[\frac{1}{k_1} + \frac{1}{k_2} \right]$$

$$\frac{1}{C} = \frac{d}{2\epsilon_0 A} \left[\frac{k_1 + k_2}{k_1 k_2} \right]$$

$$C_{eq} = \frac{\epsilon_0 A}{d} \left(\frac{2k_1 k_2}{k_1 + k_2} \right)$$

$$C_{eq} = C \left(\frac{2k_1 k_2}{k_1 + k_2} \right)$$

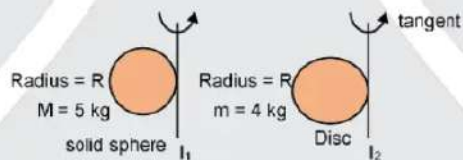
$$k_1 = k$$

$$k_2 = 1$$

$$C_{eq} = C \left(\frac{2k}{k+1} \right)$$

$$= \frac{2Ck}{k+1}$$

17. Ratio of moment of inertia $\frac{I_1}{I_2}$ of tangential axis shown in figure will be :



- (1) $\frac{7}{5}$ (2) $\frac{2}{5}$ (3) $\frac{9}{5}$ (4) $\frac{3}{2}$

Ans. (1)

Sol. $I_1 = \frac{2}{5}MR^2 + MR^2$ $I_2 = \frac{mR^2}{4} + mR^2$
 $= \frac{7}{5}MR^2 = \frac{7}{5} \times 5R^2 = 7R^2$ $= \frac{5}{4}mR^2 = \frac{5}{4} \times 4R^2 = 5R^2$
 $\frac{I_1}{I_2} = \frac{7R^2}{5R^2}$
 $\frac{I_1}{I_2} = \frac{7}{5}$

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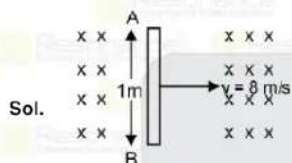
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18. A metal rod of length 1 m is moving perpendicular to its length with 8 m/s velocity along +ve x axis. If a magnetic field $B = 2T$ exist perpendicular to the plane of motion. Find the emf induced between end of rod.

- (1) 8V (2) 12V (3) 16V (4) 20V

Ans. (3)



Sol. $\epsilon = Bvl$
 $= 2 \times 8 \times 1 = 16 \text{ v}$

19. Image formed by plane mirror for an object placed parallel and in front of mirror.

- (I) Real (II) Inverted laterally (III) Erect (IV) virtual
 (1) I, III (2) III, IV (3) I, IV (4) II, III

Ans. (2)

20. A stationary nucleus breaks into two nuclei having velocities in ratio 3 : 2. Find the ratio of their radii

- (1) $\left(\frac{2}{3}\right)^{\frac{1}{3}}$ (2) $\left(\frac{3}{2}\right)^{\frac{1}{3}}$ (3) $\left(\frac{5}{3}\right)^{\frac{1}{3}}$ (4) $\left(\frac{3}{5}\right)^{\frac{1}{3}}$

Ans. (1)

Sol. $mv = \text{const.}$

$m \propto \frac{1}{v}$

$\frac{m_1}{m_2} = \frac{v_2}{v_1} = \frac{2}{3}$

$m \propto A$

$\rho = \text{const.}$ $m \propto v$ (volume)

$v \propto r^3$

$m \propto r^3$

$\dots \dots r \propto v^{\frac{1}{3}}$

$$\frac{m_1}{m_2} = \left(\frac{r_1}{r_2} \right)^3$$

$$\frac{r_1}{r_2} = \left(\frac{m_1}{m_2} \right)^{\frac{1}{3}} = \left(\frac{2}{3} \right)^{\frac{1}{3}}$$

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21. Match the matrix :

(A) Faraday's law

(p) $\oint \vec{B} \cdot d\vec{A} = 0$

(B) Gauss's law of electrostatic

(q) $\oint \vec{B} \cdot d\vec{l} = \mu_0 \left(i_c + \epsilon_0 \frac{d\phi_E}{dt} \right)$

(C) Gauss's law of magnetism

(r) $\oint \vec{E} \cdot d\vec{l} = -\frac{d\phi_m}{dt}$

(D) Ampere's Maxwell's law

(s) $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{in}}{\epsilon_0}$

(1) A - s, B - r, C - p, D - q

(2) A - r, B - q, C - p, D - s

(3) A - q, B - s, C - p, D - r

(4) A - r, B - s, C - p, D - q

Ans. (4)

Sol. A - r, B - s, C - p, D - q

22. A big drop is divided into 1000 identical droplets. If the big drop had surface energy μ_i and all small droplet together had a surface energy μ_f then μ_i/μ_f is equal to

(1) $\frac{1}{100}$

(2) 10

(3) $\frac{1}{10}$

(4) 1000

Ans. (3)

Sol.



$$n \times \frac{4}{3} \pi r^3 = \frac{4}{3} \pi R^3$$

$$1000 \times r^3 = R^3$$

$$r = R/10$$

$$\mu_i = T \times 4\pi R^2$$

$$\mu_f = n \times T \times 4\pi r^2$$

$$\frac{\mu_i}{\mu_f} = \frac{R^2}{r^2 n} = \frac{R^2 \times 100}{R^2 \times 1000} = \frac{1}{10}$$

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- Approx 2500 practice Ques.
- 113 Teaching hours
- 99 Testing Hours
- Regular Test discussion classes for concept clearance
- Back up support of recorded lectures



 **Resonance**[®]
Educating for better tomorrow

JEE (ADVANCED) 2022
RESULT

RESONites ने फिर लहराया सफलता का परचम

STUDENTS FROM CLASSROOM PROGRAM (OFFLINE / ONLINE)

STUDENTS FROM CLASSROOM PROGRAM (OFFLINE/ ONLINE)

AIR 6



KARTHIKEYA POLISETTY
Roll No.: 21925115

AIR-1 GEN-EWS

AIR 8



DHEERAJ KURUKUNDA
Roll No.: 21920114

Students in TOP-100 All India Ranks (AIRs)



AIR-11
DEWANGANJI MALI
Roll No.: 2119044



AIR-15
ASHRUTI ANAND
Roll No.: 21925165



AIR-35
SANCHIN SHRIVYA
Roll No.: 21925155



AIR-50
ANSHUL GARG
Roll No.: 21230192



AIR-54
SOUMITRA D. NAVIK
Roll No.: 21230554



AIR-58
KARISHK SHARMA
Roll No.: 21230454

ADMISSIONS OPEN FOR ACADEMIC SESSION 2023-24

TARGET: JEE (Adv.) 2024

for Class XII Passed Student

VISHESH COURSE
MODE: OFFLINE / ONLINE

CLASS STARTS
10th & 17th April

TARGET: JEE (Main) 2024

for Class XII Passed Student

ABHYAAS COURSE
MODE: OFFLINE / ONLINE

CLASS STARTS
10th & 24th April

SCHOLARSHIP ON THE BASIS OF JEE (MAIN) 2023 %ILE / AIR

Resonance Eduventures Limited

REGISTERED & CORPORATE OFFICE: CG Tower, A-46 & 52, IPHA, Near City Mall, Jhalawar Road, Kota (Rajasthan) - 324005
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