JEE MAIN 4th Attempt

PHYSICS 26th August 2021 [SHIFT – 2] QUESTION WITH SOLUTION

JEE | NEET | Foundation





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ANSWER KEY

SECTION - A

1. At time t = 0, a meterial is composed of two radioactive atoms A and B, where $N_A(0) = 2N_B(0)$. The decay constant of both kind of radioactive atoms is λ . However, A disintegrates to B and B disntegrates to C. Which of the following figures represents the evolution of $N_B(t)/N_B(0)$ with respec to time t?

(2)

(4)

 $\left\lceil N_{A}(0) = No. \text{ of } A \text{ atoms at } t = 0 \right\rceil$

 $N_{_{B}}(0) = NO.$ of B atoms at t = 0





Sol.

$$\begin{split} &A \rightarrow B \text{ , } B \rightarrow C \\ &\frac{dN_B}{dt} = \lambda N_A - \lambda N_B \text{ , } \frac{dN_B}{dt} = 2\lambda N_{B_0} e^{-\lambda t} - \lambda N_B \\ &e^{-\lambda t} \left(\frac{dN_B}{dt} + \lambda N_B \right) = 2\lambda N_{B_0} e^{-\lambda t} \times e^{\lambda t} \\ &\frac{d}{dt} \left(N_B e^{\lambda t} \right) = 2\lambda N_{B_0} \text{ , on integrating} \\ &N_B e^{\lambda t} = 2\lambda t N_{B_0} + N_{B_0} \text{ , } N_B = N_{B_0} [1 + 2\lambda t] e^{-\lambda t} \\ &\frac{dN_B}{dt} = 0 \text{ at } -\lambda [1 + 2\lambda t] e^{-\lambda t} + 2\lambda e^{-\lambda t} = 0 \\ &N_{B_{max}} \text{ at } t = \frac{1}{2\lambda} \end{split}$$

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2. A bomb is dropped by a fighter plane flying horizontally. To an observer sitting in the plane, the trajectory of the bomb is a:

ANSWER KEY

- (1) Parabola in a direction opposite to the motion of plane
- (2) Straight line vertically down the plane
- (3) hyprebola
- (4) parabola in the direction of motion of plane
- Sol.



3. The temperature of equal masses of three different liquids x, y and z are 10°C, 20°C and 30°C respectively. The temperature of mixture when x is mixed with y is 16°C and that when y is mixed with z is 26°C. The temperature of mixture when x and z are mixed will be: (1) 28.32°C (2) 23.84°C (3) 20.28°C (4) 25.62°C

Sol.

2

Х γ Ζ $m_2 = m$ $T_2 = 20^{\circ}C$ $m_1 = m$ $m_3 = m$ $T_3 = 30^{\circ}C$ $T_1 = 10^{\circ}C$ S_1 S_2 S₃ When x & y are mixed, $T_{f_1} = 16^{\circ}C$ $\begin{array}{l} m_1 s_1 T \ + \ m_2 s_2 T_2 = \ (m_1 s_1 + \ m_2 S_2) T f_1 \\ s_1 \times 10 + s_2 \times 20 = \ (s_1 + s_2) \times 16 \end{array}$ $s_1 = \frac{2}{3}s_2$(1) When y & z are mixex, $T_{f_2} = 26^{\circ}C$ $m_2s_2T + m_3s_3T_3 = (m_3s_3 + m_3s_3)Tf_2$ $s_2 \times 20 + s_3 \times 30 = (s_2 + s_3) \times 26$ $s_{3}^{2} = \frac{3}{2}s_{2}^{2}$(2) When x & z are mixex $m_1s_1T_1 + m_3s_3T_3 = (m_1s_1 + m_3s_3)Tf$ $\frac{2}{3}s_2 \times 10 + \frac{2}{3}s_2 \times 20 = \left(\frac{2}{3}s_2 + \frac{3}{2}s_2\right)T_f$ $T_{f} = 23.84^{\circ}C$

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Match List-I with List-II 4.

List-I

- (a) Magnetic Induction
- (b) Magnetic Flux
- (c) Magnetic Permeability
- (d) Manetization

Choose the most appropriate answer from the options given below

- (1) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
- (3) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
- (a) Magnetic Induction = $MT^{-2}A^{-1}$
- (b) Magnetic Flux = $ML^2T^{-2}A^{-1}$
- (c) Magnetic Permeability = $MLT^{-2}A^{-2}$
- (d) Magnetization = $M^0 L^{-1} A$
- The de-Broglie wavelength of a particle having kinetic energy E is λ . How much extra energy 5. must be given to this particle so that the de-Broglie wavelength reduces to 75% of the initial value ?

List-II (i) $ML^{2}T^{-2}A^{-1}$

(ii) M⁰L⁻¹A] (iii) MT⁻²A⁻¹

(iv) MLT⁻²A⁻²

- (3) $\frac{7}{9}E$ (4) $\frac{16}{9}E$ (1) $\frac{1}{9}E$ (2) E 3 $\lambda = \frac{h}{mv} = \frac{h}{\sqrt{2mE}}$, $mv = \sqrt{2mE}$ $\lambda \propto \frac{1}{\sqrt{E}}$ $\frac{\lambda_2}{\lambda_1} = \sqrt{\frac{E_1}{E_2}} = \frac{3}{4}, \ \lambda_2 = 0.75 \lambda_1$ $\frac{\mathsf{E}_1}{\mathsf{E}_2} = \left(\frac{3}{4}\right)^2$ $E_2 = \frac{16}{9}E_1 = \frac{16}{9}E$ $(E_1 = E)$ Extra energy given = $\frac{16}{9}E - E = \frac{7}{9}E$
- In the given cirucit the AC source has $\omega = 100 \text{ rad s}^{-1}$. Considering the inductor and capacitor to 6. be ideal, what will be the currect I flowing through the circuit?



ANSWER KEY

- (2) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)
- (4) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

Sol.

Sol.

ANSWER KEY

Sol. NTA Ans. 4.24 Motion Ans. 3 $Z_{c} = \sqrt{\left(\frac{1}{2}\right)^{2} + R^{2}}$

$$\begin{aligned} z_{c} &= \sqrt{\left(\frac{1}{\omega C}\right)^{2} + 10} \\ &= \sqrt{\left(\frac{1}{100 \times 100 \times 10^{-6}}\right)^{2} + 100^{2}} \\ z_{c} &= \sqrt{(100)^{2} + (100)^{2}} \\ &= 100\sqrt{2} \\ z_{c} &= \sqrt{(\omega L)^{2} + R^{2}} \\ \sqrt{(100 \times 0.5)^{2} + 50^{2}} \\ &= 50\sqrt{2} \\ i_{c} &= \frac{200}{z_{c}} = \frac{200}{100\sqrt{2}} = \sqrt{2} \\ i_{c} &= \frac{200}{z_{c}} = \frac{200}{50\sqrt{2}} = 2\sqrt{2} \\ \cos \phi_{1} &= \frac{100}{10\sqrt{2}} = \frac{1}{\sqrt{2}} \Rightarrow \phi_{1} = 45^{\circ} \\ \cos \phi_{2} &= \frac{50}{50\sqrt{2}} = \frac{1}{\sqrt{2}} \Rightarrow \phi_{2} = 45^{\circ} \\ &= \sqrt{I_{c}} \\ &= \sqrt{I_{c}^{2} + I_{c}^{2}} = \sqrt{2 + 8} = \sqrt{10} \\ I &= 3.16 \text{ A} \end{aligned}$$

7. If the length of the prnedulum in pendulum clock increases by 0.1%, then the error in time per day is ;

Sol. (1) 8.64 s (2) 86.4 s (3) 4.32 s (4) 43.2 s $T = 2\pi \sqrt{\frac{\ell}{g}}$ $\frac{\Delta T}{T} = \frac{1}{2} \frac{\Delta \ell}{\ell}$ $\Delta T = \frac{1}{2} \times \frac{0.1}{100} \times 24 \times 3600$ $\Delta T = 43.2$

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ANSWER KEY

8. The two thin coaxial rings, each of radius 'a' and having charges +Q and -Q respectively are separated by a distance of 's'. The potential difference between the centre of the two rings is:

(1) $\frac{Q}{4\pi\epsilon_0}\left[\frac{1}{a} + \frac{1}{\sqrt{s^2 + a^2}}\right]$	$(2) \frac{Q}{2\pi\varepsilon_0} \left[\frac{1}{a} - \frac{1}{\sqrt{s^2 + a^2}} \right]$
$(3) \frac{Q}{4\pi\epsilon_0} \left[\frac{1}{a} - \frac{1}{\sqrt{s^2 + a^2}} \right]$	$(4) \ \frac{Q}{2\pi\epsilon_0} \left[\frac{1}{a} + \frac{1}{\sqrt{s^2 + a^2}} \right]$

Sol. 2

$$V_{A} = \frac{KQ}{a} - \frac{KQ}{\sqrt{a^{2} + s^{2}}}$$
$$V_{B} = \frac{-KQ}{a} + \frac{KQ}{\sqrt{a^{2} + s^{2}}}$$
$$V_{A} - V_{B} = \frac{2KQ}{a} - \frac{2KQ}{\sqrt{a^{2} + s^{2}}}$$
$$= \frac{Q}{2\pi\epsilon_{0}} \left(\frac{1}{a} - \frac{1}{s^{2} + a^{2}}\right)$$

9. Four NOR gates are connected as shown in figure. The truth table for the given figure is:



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Sol. 4



Α	В	Y
0	0	1
0	1	0
1	0	0
1	1	1

10. A cylindrical container of volume $4.0 \times 10^{-3} \text{ m}^3$ contains one mole of hydrogen and two moles of carbon dioxide. Assume the temperature of the mixture is 400 K. The pressure of the mixture of gases is : [Take gas constant as 8.3 J mol⁻¹K⁻¹] (1) 24.9 × 10³ Pa (2) 24.9 Pa (3) 249 × 10¹ Pa (4) 24.9 × 10⁵ Pa

(1) $24.9 \times 10^{\circ}$ Pa (2) 24.9 Pa (3) $249 \times 10^{\circ}$ Pa (4) $24.9 \times 10^{\circ}$ P **4**

$$\begin{split} &V=4\times 10^{-3}m^3\,,\,n=3\mbox{ moles}\,\,,\,T=\,400\mbox{ K}\\ &PV=nRT\ \Rightarrow\ P=\frac{nRT}{V}\\ &P=\frac{3\times 8.3\times 400}{4\times 10^{-3}}\ =\ 24.9\times 10^5\mbox{ Pa} \end{split}$$

- A transmitting antenna at top of a tower has height of 50 m and the height of receiving antenna is 80m. What is the rnage of communication for line of Sight (LoS) mode? [use radius of earth = 6400 km]
 (1) 45.5 km
 (2) 57.28 km
 (3) 80.2 km
 (4) 144.1 km
- Sol. 2

Sol.

$$d_{1} = \sqrt{2} h_{2}$$

$$d_{1} = \sqrt{2} Rh_{1} + \sqrt{2} Rh_{2} = \sqrt{2} R\left(\sqrt{h_{1}} + \sqrt{h_{2}}\right)$$

$$= (2 \times 6400 \times 10^{3})^{1/2} \left(\sqrt{50} + \sqrt{80}\right) = 3578 (7.07 + 8.94) = 57.28 \text{ Km}$$
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12. An electric bulb of 500 watt at 100 volt is used in a circuit having a 200 v supply. Calculate the resistance R to be connected in series with the bulb so that the power delivered by the bulb is 500 W.

(1) 20 Ω	(2) 5 Ω	(3) 30 Ω	(4) 10 Ω
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Sol. 1



- **13.** If you are provided a set of resistances 2 Ω , 4 Ω , 6 Ω and 8 Ω . Connect these resistances so as to obtain an equivalent resistance of $\frac{46}{3}\Omega$.
 - (1) 2Ω and 4Ω are in parallel with 6Ω and 8Ω in series
 - (2) $^{6\Omega}$ and $^{8\Omega}$ are in parallel with $^{2\Omega}$ and $^{4\Omega}$ in series
 - (3) 4Ω and 6Ω are in prallel with 2Ω and 8Ω in series
 - (4) 2Ω and 6Ω are in parallel with 4Ω and 8Ω in series

Sol. 1



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ANSWER KEY

14. The solid cylinder of length 80 cm and mass M has a radius of 20 cm. Calculate the density of the material used if the moment of inertia of the cylinder about an axis CD parallel to AB as shown in figure is 2.7 kg m².



ANSWER KEY



17. Two blocks of masses 3 kg and 5 kg are connected by a metal wire going over a smoth pulley. The breaking stress of the metal is $\frac{24}{\pi} \times 10^2 \text{Nm}^{-2}$. What is the minimum radius of the wire?

 $(take g = 10 ms^{-2})$ _____ 3 kg 5 kg (1) 125 cm (2) 150 cm (3) 1.25 cm (4) 12.5 cm Sol. Т 3 kg $T = \frac{2m_1m_2g}{m_1 + m_2} = \frac{2 \times 3 \times 5 \times 10}{8} = \frac{75}{2}$ Stress = $\frac{T}{A}$ $\frac{24}{\pi}\times 10^2\,=\frac{75}{2\times\pi R^2}$ $R^{2} = \frac{75}{2 \times 24 \times 100} = \frac{3}{8 \times 24}$ \Rightarrow R = 0.125 , R = 12.5 cm

- 18. A refrigerator consumes an average 35W power to operate between temperature -10°C to 25°C. If there is no loss of energy then how much average heat per second does it transfer?
 (1) 263 J/s
 (2) 298 J/s
 (4) 35 J/s
 (4) 350 J/s
- Sol. 1

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ANSWER KEY

$$\frac{T_{L}}{T_{H} - T_{L}} = \text{C.O.P.} = \frac{\frac{dH}{dt}}{\frac{dW}{dt}}$$
$$\frac{263}{35} \times 35 = \frac{dH}{dt}$$
$$\frac{dH}{dt} = 263 \text{ watts}$$

19. A parallel-plate capacitor with plate area A has separation d between the plates. Two dielectric slabs of dielectric constant K_1 and K_2 of same area A/2 and thickness d/2 are inserted in the space between the plates. The capacitance of the capacitor will be given by :



(1)
$$\frac{\varepsilon_0 A}{d} \left(\frac{1}{2} + \frac{K_1 K_2}{K_1 + K_2} \right)$$

(3) $\frac{\varepsilon_0 A}{d} \left(\frac{1}{2} + \frac{K_1 + K_2}{K_1 K_2} \right)$

Sol.



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20. A particle of mass m is suspended from a ceiling through a string of length L. The particle moves in a horizontal circle of radius r such that $r = \frac{L}{\sqrt{2}}$. The speed of particle will be;

ANSWER KEY

(1) $2\sqrt{rg}$ (2) $\sqrt{2rg}$ (3) \sqrt{rg} (4) $\sqrt{\frac{rg}{2}}$

Sol. 3

Sol

Conical pendulum



Section B

1. The coefficient of static friction between two blocks is 0.5 and the table is smooth. The maximum horizontal force that can be applied to move the blocks together is _____N. (take $g = 10 \text{ ms}^{-2}$)

Table
$$1 \text{ kg} \mu = 0.5$$

 $2 \text{ kg} \rightarrow F$

15
Table 1 kg
$$\mu = 0.5$$

 $2 \text{ kg} \rightarrow F$
 $F = 3a (\text{for system}) \dots (i)$
 $1 \qquad \text{fs}_{max}$
 $fs_{max} = 1a (\text{for 1kg block}) \qquad \dots (ii)$
 $\mu \times 1 \times g = a$
 $\Rightarrow 5 = a$
 $F = 15 \text{ N}$

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ANSWER KEY

2. The acceleration due to gravity is found upto an accuracy of 4% on a planet. The enrgy supplied to a simple pendulum of known mass 'm' to undertake oscillations of time period T is being estimated. If time period is measured to an accuracy of 3%, the accuracy to which E is known as ______%.

Sol. 14

$$T = 2\pi \sqrt{\frac{\ell}{g}} \Rightarrow \ell = \frac{T^2 g}{4\pi^2}$$

$$E = mg\ell \frac{\theta^2}{2} = mg^2 \frac{T^2 \theta^2}{8\pi^2}$$

$$\frac{dE}{E} = 2\left(\frac{dg}{g} + \frac{dT}{T}\right)$$

$$= (4 + 3) = 14\%$$

3. An object is plaed at a distance of 12 cm from a convex lens. A convex mirror of focal length 15 cm is palced on other side of lens at 8 cm as shown in the figure. Image of object coincides with the object.



When the convex mirror is removed, a real and inverted image is formed at a positon. tHE distance of the image from the object will be_____ (cm). **50**

Sol. 5



For the object to coincide with image, the light must fall perpendicualry to mirror. Which means that the light will have to convarge at C of mirror. Without the mirror also, the light would covergae at C.

So, the distance is : 12 + 8 + 30 = 50 cm



ANSWER KEY

4. A source of light is placed in front of a screen. Intensity of light on the screen is I.Two Polaroids P₁ and P₂ are so placed in between the source of light and screen that the intensity of light on screen is I/2. P₂ should be rotated by an angle of ______(degrees) so that the intensity of 3I

light on the screen becomes $\frac{3I}{8}$.

Sol. 30



- **5.** A coil in the shape of an equilateral triange of side 10 cm lies in a vertical plane between the pole pieces of permanent magnet producing a horizontal magentic field 20 mT. The torque acting on the coil when a current of 0.2 A is passed through it and its plane becomes parallel to the magetnic field will be $\sqrt{x} \times 10^{-5}$ Nm. The value of x is _____.
- Sol.

3

 $\vec{\tau} = \vec{M} \times \vec{B} = MB \sin 90^{\circ}$ $= MB = \frac{i\sqrt{3}\ell^2}{4}B$ $= \sqrt{3} \times 10^{-5} N - m$

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ANSWER KEY

If the maximum value of accelerating potential provided by a radio frequency oscillator is 12 kV. 6. The number of revolution made by a proton in a cyclotron to achieve one sixth of the speed of light is

 $[m_p = 1.67 \times 10^{-27} \text{kg}, e = 1.6 \times 10^{-19} \text{ C}, \text{ Speed of light} = 3 \times 10^8 \text{ m/s}]$

Sol. 543

 $V = 12 \, kV$ Number of revolution = n $n [2 \times q_p \times V] = \frac{1}{2} m_p \times v_p^2$ n $[2 \times 1.6 \times 10^{-19} \times 12 \times 10^{3}]$ $=\frac{1}{2} \times 1.67 \times 10^{-27} \times \left[\frac{3 \times 10^8}{6}\right]^2$ n (38.4 × 10^{-16}) = 0.2087 × 10^{11} n = 543.4

A circular coil of raidus 8.0 cm and 20 turns is rotated about its vertical diameter with an 7. angular speed of 50 rad s⁻¹ in a uniform horizontal magnetic field of 3.0×10^{-2} T. The maximum emf induced the coil will be _____ $\times 10^{-2}$ volt (rounded off to the nearest integer).

60 Sol.

Maximum emf $\varepsilon = N \omega AB$ N = 20, ω = 50, B = 3 × 10⁻² T $\varepsilon = 20 \times 50 \times \pi \times (0.08)^2 \times 3 \times 10^{-2} = 60.28 \times 10^{-2}$ Rounded off to nearest integer = 60

Two waves are simultaneously passing through a string and their equations are: 8. $y_1 = A_1 \sin k(x - vt)$, $y_2 = A_2 \sin k(x - vt + x_0)$. Given amplitudes $A_1 = 12$ mm and $A_2 = 5$ mm, x_0 = 3.5cm and wave number $k = 6.28 \text{ cm}^{-1}$. The amplitude of resulting wave will be _____ mm. 7

Sol.

 $y_1 = A_1 \sin k (x - vt)$ $y_2 = 12 \sin 6.28 (x - vt)$ $y_2 = 5 \sin 6.28 (x - vt + 3.5)$ $\Delta \phi = \frac{2\pi}{\lambda} \ (\Delta x)$ $= K (\Delta x)$ $= 6.28 \times 3.5 = \frac{7}{2} \times 2\pi = 7\pi$ $A_{net} = \sqrt{A_1^2 + A_2^2 + 2A_1A_2\cos\phi}$ $A_{\text{net}} = \sqrt{(12)^2 + (5)^2 + 2(12)(5)\cos(7\pi))}$ $=\sqrt{144+25-120} = 7$

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ANSWER KEY



Two simple harmonic motions are represented by the equations $x_1 = 5 \sin \left(2\pi t + \frac{\pi}{4} \right)$ 10. and $x_2 = 5\sqrt{2}(\sin 2\pi t + \cos 2\pi t)$. The amplitude of second motion is ______ times the amplitude in first motion. 2

$$x_{2} = 5\sqrt{2} \left(\frac{1}{\sqrt{2}}\sin 2\pi t + \frac{1}{\sqrt{2}}\cos 2\pi t\right) \sqrt{2}$$
$$= 10 \sin \left(2\pi t + \frac{\pi}{4}\right)$$
$$\frac{A_{2}}{A_{1}} = \frac{10}{5} = 2$$



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