

2023 SOLVED PAPER

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PHYSICS

SECTION-A (MULTIPLE CHOICE QUESTIONS)

- Given below are two statements : ONE is labelled as Assertion (A) and the other is labelled as Reason (R).
Assertion (A) : Photodiodes are preferably operated in reverse bias condition for light intensity measurement.
Reason (R) : The current in the forward bias is more than the current in the reverse bias for a $p-n$ junction diode.
In the light of the above statements, choose the correct answer from the options given below:
(a) (A) is true but (R) is false.
(b) Both (A) and (R) are true and (R) is the correct explanation of (A).
(c) (A) is false but (R) is true.
(d) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- A travelling wave is described by the equation
 $y(x, t) = [0.05 \sin (8\pi x - 4t)] \text{ m}$
The velocity of the wave is
[All the quantities are in SI units.]
(a) 4 m s^{-1} (b) 8 m s^{-2}
(c) 0.5 m s^{-1} (d) 2 m s^{-2}
- Two long straight wires P and Q carrying equal current 10 A each were kept parallel to each other at 5 cm distance. Magnitude of magnetic force experienced by 10 cm length of wire P is F_1 . If distance between wires is halved and currents on them are doubled, force F_2 on 10 cm length of wire P will be
(a) $10 F_1$ (b) $8 F_1$
(c) $\frac{F_1}{8}$ (d) $\frac{F_1}{10}$
- Consider the following radioactive decay process



The mass number and the atomic number of A_6 are given by

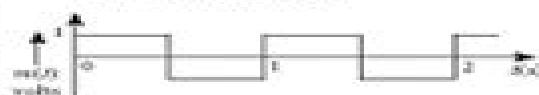
- (a) 211 and 80 (b) 210 and 80
(c) 210 and 82 (d) 210 and 84

- From the photoelectric effect experiment, following observations are made. Identify which of these are correct.

- The stopping potential depends only on the work function of the metal.
- The saturation current increases as the intensity of incident light increases.
- The maximum kinetic energy of a photo electron depends on the intensity of the incident light.
- Photoelectric effect can be explained using wave theory of light

Choose the correct answer from the options given below

- A, B, D only (b) B only
(c) A, C, D only (d) B, C only
- 1 g of a liquid is converted to vapour at $3 \times 10^5 \text{ Pa}$ pressure. If 10% of the heat supplied is used for increasing the volume by 1600 cm^3 during this phase change, then the increase in internal energy in the process will be
(a) 4800 J (b) 4320 J
(c) $4.32 \times 10^3 \text{ J}$ (d) 432000 J
- A modulating signal is a square wave, as shown in the figure.



If the carrier wave is given as $c(t) = 2 \sin (8\pi t)$ volts, the modulation index is

- (a) $\frac{1}{3}$ (b) 1 (c) $\frac{1}{2}$ (d) $\frac{1}{4}$

- Given below are two statements.
Statement I : The temperature of a gas is -73°C . When the gas is heated to 527°C , the root mean square speed of the molecules is doubled.
Statement II : The product of pressure and volume of an ideal gas will be equal to translational kinetic energy of the molecules.

In the light of the above statements, choose the correct answer from the options given below.

- Statement I is false but statement II is true.
- Both statement I and statement II are true.
- Both statement I and statement II are false.
- Statement I is true but statement II is false.

- If $\vec{E}$ and $\vec{K}$ represent electric field and propagation vectors of the EM waves in vacuum, then magnetic field vector is given by (ω -angular frequency)

- $\frac{1}{\omega}(\vec{K} \times \vec{E})$ (b) $m(\vec{K} \times \vec{E})$
(c) $\vec{K} \times \vec{E}$ (d) $\omega(\vec{E} \times \vec{K})$

- A circular loop of radius r is carrying current I A. The ratio of magnetic field at the center of circular loop and at a distance r from the center of the loop on its axis is

- $1:3\sqrt{2}$ (b) $2\sqrt{2}:1$
(c) $3\sqrt{2}:2$ (d) $1:\sqrt{2}$

- A 100 m long wire having cross-section area $6.25 \times 10^{-4} \text{ m}^2$ and Young's modulus is 10^{10} N m^{-2} is subjected to a load of 250 N, then the elongation in the wire will be

- $6.25 \times 10^{-3} \text{ m}$ (b) $4 \times 10^{-3} \text{ m}$
(c) $4 \times 10^{-4} \text{ m}$ (d) $6.25 \times 10^{-4} \text{ m}$

- As per given figure, a weightless pulley P is attached on a double inclined

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