

SUBJECT: PHYSICS
CLASS : XII

MAX. MARKS : 70
DURATION : 3 HRS

General Instruction:

- (i) All questions are compulsory. There are 27 questions in all.
- (ii) This question paper has four sections : Section A, Section B, Section C and Section D.
- (iii) Section A contains five questions of one mark each, Section B contains seven questions of two marks each, Section C contains twelve questions of three marks each and Section D contains three questions of five marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.
- (v) You may use the following values of physical constants wherever necessary :

$$c = 3 \times 10^8 \text{ m/s}, \quad h = 6.63 \times 10^{-34} \text{ Js}, \quad e = 1.6 \times 10^{-19} \text{ C}, \quad \mu_0 = 4\pi \times 10^{-7} \text{ TmA}^{-1},$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}, \quad m_e = 9.1 \times 10^{-31} \text{ kg}, \quad \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2 \text{ C}^{-2},$$

$$\text{Mass of neutron} = 1.675 \times 10^{-27} \text{ kg},$$

$$\text{Mass of proton} = 1.673 \times 10^{-27} \text{ kg},$$

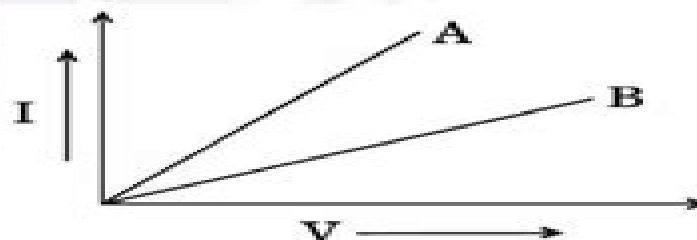
$$\text{Avogadro's number} = 6.023 \times 10^{23} \text{ per gram mole},$$

$$\text{Boltzmann constant} = 1.38 \times 10^{-23} \text{ JK}^{-1}$$

SECTION – A

Questions 1 to 5 carry 1 mark each.

1. For the same angle of incidence, the angle of refraction in two media A and B are 25° and 35° respectively. In which medium is the speed of light less ?
2. Two metallic resistors are connected first in series and then in parallel across a d.c. supply. Plot of $I - V$ graph is shown for the two cases. Which one represents a parallel combination of the resistors and why ?



3. Write the function of a transducer in communication system.
4. The charging current for a capacitor is 0.25A. what is the displacement current across its plates?
5. A signal of 5KHz frequency is amplitude modulated on a carrier wave of frequency 2MHz. What are the frequencies of the side bands produced?

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