

BOARD QUESTION PAPER: MARCH 2022

PHYSICS

Time: 3 Hrs

Max. Marks: 70

General Instructions:

The question paper is divided into four sections:

- (1) **Section A:** Q. No. 1 contains *Ten multiple choice type of questions carrying One mark each.*
Q. No. 2 contains *Eight very short answer type of questions carrying One mark each.*
- (2) **Section B:** Q. No. 3 to Q. No. 14 contain *Twelve short answer type of questions carrying Two marks each. (Attempt any Eight).*
- (3) **Section C:** Q. No. 15 to Q. No. 26 contains *Twelve short answer type of questions carrying Three marks each. (Attempt any Eight).*
- (4) **Section D:** Q. No. 27 to Q. No. 31 contain *Five long answer type of questions carrying Four marks each. (Attempt any Three).*
- (5) *Use of the log table is allowed. Use of calculator is not allowed.*
- (6) *Figures to the right indicate full marks.*
- (7) *For each multiple choice type of question, it is mandatory to write the correct answer along with its alphabet, e.g., (a)...../(b)...../(c)...../(d)..... No marks(s) shall be given, if ONLY the correct answer or the alphabet of the correct answer is written. Only the first attempt will be considered for evaluation.*
- (8) **Physical Constants:**
 - (i) mass of electron $m = 9.1 \times 10^{-31} \text{ kg}$
 - (ii) $\epsilon_0 = 8.85 \times 10^{-12} \frac{\text{C}^2}{\text{Nm}^2}$
 - (iii) $\pi = 3.142$
 - (iv) charge on electron $e = 1.6 \times 10^{-19} \text{ C}$
 - (v) $\mu_0 = 4\pi \times 10^{-7} \text{ Wb / Am}$
 - (vi) $h = 6.63 \times 10^{-34} \text{ Js}$
 - (vii) $c = 3 \times 10^8 \text{ m/s}$

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