# BOARD QUESTION PAPER: MARCH 2022 PHYSICS

Time: 3 Hrs. Marks: 70

#### General instructions:

The question paper is divided into four sections:

- 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 × 10<sup>-14</sup> C
- (v)  $\mu_0 = 4\pi \times 10^{-7} \text{ Wb / Am}$
- (vi)  $h = 6.63 \times 10^{-14} \text{ Js}$
- (vii)  $C = 3 \times 10^4 \text{ m/s}$

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Michael Rajnik

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