## CLASS: XII

### SESSION: 2023-24

## CBSE SAMPLE QUESTION PAPER

## SUBJECT: PHYSICS (THEORY)

### Maximum Marks: 70

### Time Allowed: 3 hours.

## General Instructions:

- There are 33 questions in all. All questions are compulsory.
- (2) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
- (3) All the sections are compulsory.
- (4) Section A contains sixteen questions, twelve MCQ and four Assertion Reasoning based of 1 mark each, Section B contains five questions of two marks each, Section C contains seven questions of three marks each, Section D contains two case study based questions of four marks each and Section E contains three long answer questions of five marks each.
- (5) There is no overall choice. However, an internal choice has been provided in one question in Section B, one question in Section C, one question in each CBQ in Section D and all three questions in Section E. You have to attempt only one of the choices in such questions.
- (6) Use of calculators is not allowed.
- (7) You may use the following values of physical constants where ever necessary
  - i.  $c = 3 \times 10^8 \,\text{m/s}$
  - ii.  $m_e = 9.1 \times 10^{-31} \text{ kg}$
  - iii. e = 1.6 x 10<sup>-19</sup> C
  - iv.  $\mu_0 = 4\pi\tau \times 10^{-7} \text{ Tm} A^{-1}$
  - v. h = 6.63 x 10<sup>-34</sup> Js
  - vi.  $\varepsilon_0 = 8.854 \times 10^{-12} C^2 N^{-1} m^{-2}$
  - vii. Avogadro's number = 6.023 × 10<sup>23</sup> per gram mole

## SECTION-A

- Which of the following is not the property of an equipotential surface?
  - (a) They do not cross each other.
  - (b) The work done in carrying a charge from one point to another on an equipotential surface is zero.
  - (c ) For a uniform electric field, they are concentric spheres.
  - (d) They can be imaginary spheres.
- An electric dipole placed in an electric field of intensity 2 x 10<sup>5</sup> N/C at an angle of 30° experiences a torque equal to 4 Nm. The charge on the dipole of dipole length 2 cm is
  - (a) 7 μC

(b) 8 mC

(c) 2 mC

(d) 5 mC

# Physics Paper 30625 13

**Jet Propulsion Laboratory (U.S.)** 

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