

CLASS : XII
SESSION: 2023-24
Pre-Board Exam
SUBJECT: PHYSICS (THEORY)

Maximum Marks: 70

Time Allowed: 3 hours.

General Instructions:

- (1) 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. $e = 1.6 \times 10^{-19} \text{ C}$
 - iv. $\mu_0 = 4\pi \times 10^{-7} \text{ TmA}^{-1}$
 - v. $h = 6.63 \times 10^{-34} \text{ Js}$
 - vi. $c_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{N}^{-1} \text{m}^{-2}$
 - vii. Avogadro's number = 6.023×10^{23} per gram mole

SECTION-A

1. 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.
2. An electric dipole placed in an electric field of intensity $2 \times 10^5 \text{ N/C}$ 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

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