



General Instructions :

Read the following instructions very carefully and follow them :

- (i) This question paper contains 35 questions. All questions are compulsory.
- (ii) Question paper is divided into FIVE sections – Section A, B, C, D and E.
- (iii) In Section A : Question number 1 to 18 are Multiple Choice (MCQ) type questions carrying 1 mark each.
- (iv) In Section B : Question number 19 to 25 are Short Answer-1 (SA-1) type questions carrying 2 marks each.
- (v) In Section C : Question number 26 to 30 are Short Answer-2 (SA-2) type questions carrying 3 marks each.
- (vi) In Section D : Question number 31 to 33 are Long Answer (LA) type questions carrying 5 marks each.
- (vii) In Section E : Question number 34 and 35 are Case-Based questions carrying 4 marks each.
- (viii) There is no overall choice. However, an internal choice has been provided in 2 questions in Section-B, 2 questions in Section-C, 3 questions in Section-D and 2 questions in Section-E.
- (ix) Use of calculators is NOT allowed.

$$c = 3 \times 10^8 \text{ m/s}$$

$$h = 6.63 \times 10^{-34} \text{ Js}$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ T m A}^{-1}$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$$

$$\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$$

$$\text{Mass of electron (m}_e\text{)} = 9.1 \times 10^{-31} \text{ kg}$$

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

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

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

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

Matric 2013 June Physics Question Paper

Ying-Ying Zheng



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