

CBSE Class 12 Physics Sample Paper Set 1

Class XII Physics

Time: 3 hours

Maximum Marks: 70

General Instructions:

- (i) All questions are compulsory. There are 26 questions in all.
- (ii) This question paper has **five** sections: Section A, Section B, Section C, Section D and Section E.
- (iii) Section A contains **five** questions of **one** mark each, section B contains **five** questions of **two** marks each, section C contains **twelve** questions of **three** marks each, section D contains one value based question of **four** marks and section E contains **three** questions of **five** marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.
- (v) You may use the following values of physical constants wherever necessary:

$$\begin{aligned}
 c &= 3 \times 10^8 \text{ m/s} \\
 h &= 6.63 \times 10^{-34} \text{ Js} \\
 e &= 1.6 \times 10^{-19} \text{ C} \\
 \mu_0 &= 4\pi \times 10^{-7} \text{ T mA}^{-1} \\
 \epsilon_0 &= 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2} \\
 \frac{1}{4\pi\epsilon_0} &= 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2} \\
 m_e &= 9.1 \times 10^{-31} \text{ kg} \\
 \text{Mass of neutron} &= 1.675 \times 10^{-27} \text{ kg} \\
 \text{Mass of proton} &= 1.673 \times 10^{-27} \text{ kg} \\
 \text{Avogadro's number} &= 6.023 \times 10^{23} \text{ per gram mole} \\
 \text{Boltzmann constant} &= 1.38 \times 10^{-23} \text{ J K}^{-1}
 \end{aligned}$$

SECTION – A

- Q. 1 Define the term 'mobility' of charge carriers. Write its S.I. unit. [1]
- Q. 2 In a series LCR circuit, $V_L = V_C \neq V_R$. What is the value of power factor? [1]
- Q. 3 The focal length of an equiconvex lens is equal to the radius of curvature of either face. What is the refractive index of the material of the lens? [1]
- Q. 4 Write a relation for polarisation \vec{P} of a dielectric material in the presence of an external electric field \vec{E} . [1]

Grade 12 Physics Paper 1 June 2013

Minghan Ye, Changzheng Yuan



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30 Years Of Bes Physics - Proceedings Of The Symposium On 30 Years Of Bes Physics Minghan Ye, Changzheng Yuan, 2020-06-05 BES the Beijing Spectrometer began its first groundbreaking physics run thirty years ago in 1989 This is the first high energy physics experiment in China and has been unique throughout the world for its thorough and extended coverage of the tau and charm energy region Since then the BES detector has undergone steady improvements upgrading to BESII in 1998 and to BESIII in 2008 Over the same period the collaboration has expanded from 150 members across 10 institutions in China and the United States to about 500 members across 72 institutions and 15 countries The physics program too has extended from light hadron spectroscopy tau and charm physics to the discovery of exotic charmonium like states precision tests of the Standard Model of particle physics and searches for new physics beyond the Standard Model This special volume collects the proceedings of the symposium held at the Institute of High Energy Physics Beijing in celebration of the 30 year span of achievements and progress at the BES BESII and BESIII experiments Written by many leaders of the BES collaborations these proceedings document the early days of the BES experiments important milestones and the future physics program at BESIII Educart NEET 37 Years Physics Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam Educart, Dr. Rakshita Singh, 2024-07-25

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