

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:

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

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

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

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

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

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

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

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

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

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

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

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 Physics Paper Exemplars

J Elliott



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Conference on the Teaching of Modern Physics ,1986

Barbara Clarke,Barbro Grevholm,Richard Millman,2008-11-17 Tasks in Primary Mathematics Teacher Education is intended to advance relevant research and innovative international practices in the preparation and professional development of mathematics teachers Emerging from discussion at the ICMI study on teacher professional development this volume focused on primary and elementary teachers culls a richness that can only be found by gathering wisdom from varied experiences around the world The choice of tasks and the associated pedagogies is a key aspect of teaching and learning mathematics Arguing that what students learn is largely defined by the tasks they are given several major themes are presented One such major strand the form function and focus of tasks is discussed throughout several chapters offering analysis discussion of implementation and exemplars of a broader category of illustrative techniques for developing critical understanding

Transformational Literacy Ron Berger,Libby Woodfin,Suzanne Nathan Plaut,Cheryl Becker Dobbertin,2014-08-20

Engage challenge and inspire students with work that matters Transformational Literacy written by a team from EL Education helps teachers leverage the Common Core instructional shifts building knowledge through content rich nonfiction reading for and writing with evidence and regular practice with complex text to engage students in work that matters Worthy texts and worthy tasks help students see the connection between their hard work as readers and writers and their capacity to contribute to stronger communities and a better world The stories examples and resources that permeate Transformational Literacy come primarily from the more than 150 EL Education schools around the country that support teachers to select supplement customize and create curriculum and improve instruction The book also draws on EL Education s open source Common Core English Language Arts curriculum often cited as one of the finest in the country and professional development offered to thousands of teachers to implement that curriculum effectively Transformational Literacy combines the best of what EL Education knows works for kids purposeful inquiry based learning and the new imperative of the Common Core higher and deeper expectations for all students Teach standards through a compelling and purposeful curriculum that prioritizes worthy texts and worthy task Improve students evidence based reading thinking talking and writing Support students to develop a new mindset toward the challenge of reading complex texts Transformational Literacy introduces an approach to literacy instruction that will engage challenge and inspire student with work that matters

Heinrich Rudolf Hertz (1857-1894) Joseph E. Mulligan,2019-03-07 Published in 1994 This book is to commemorate the one hundredth anniversary of Heinrich Hertz s death at the terribly young age of thirty six The introductory biography together with eleven papers by Hertz and seven about him are intended to highlight the importance of Hertz s contributions to physics and at the same time to serve the needs of anyone interested in doing research on this highly gifted scientist

Journal of social science ,1874 *Journal of Social Science, Containing the Proceedings of the American Association* ,1874 **Acta Cytologica** ,1995 Includes abstracts of papers of various symposia

The Nation's Best Schools: Middle and secondary

schools Evelyn Hunt Ogden,1994 Annual Index/abstracts of SAE Technical Papers ,1991 *Sustainable Plastics* Joseph P. Greene,2014-09-22 Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics Sustainable Plastics and the Environment explains what sustainable plastics are why sustainable plastics are needed which sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum and biobased plastics **Research in Education** ,1974

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