

CLASS : XII
SESSION: 2023-24
CBSE SAMPLE QUESTION PAPER
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. $\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{N}^{-1} \text{m}^{-2}$
 - 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) $7 \mu\text{C}$
 - (b) 8 mC
 - (c) 2 mC
 - (d) 5 mC

Physics 97june 2paper 21

K. Wayne Smith



Physics 97june 2paper 21:

Lepton-photon Interactions, Lp'97 - Proceedings Of The Xviii International Symposium Albert De Roeck, Albrecht Wagner, 1998-07-22 This book constitutes the proceedings of the XVIII International Symposium on Lepton Photon Interactions It contains 30 review papers on the latest developments by experts in the field The subjects cover the structure of photons and hadrons progress in QCD and diffraction heavy quark c b t physics electroweak precision measurements and tests CP violation neutrino physics searches for new particles and phenomena cosmology progress in theory and physics at future colliders **'98 Electroweak Interactions and Unified Theories** Jean Thanh Vân Trần, 1999 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents, 1964-07 *Collected Papers of Carl Wieman* Carl E. Wieman, 2008 Carl Wieman's contributions have had a major impact on defining the field of atomic physics as it exists today His ground breaking research has included precision laser spectroscopy using lasers and atoms to provide important table top tests of theories of elementary particle physics the development of techniques to cool and trap atoms using laser light particularly in inventing much simpler less expensive ways to do this the understanding of how atoms interact with one another and light at ultracold temperatures and the creation of the first Bose Einstein condensation in a dilute gas and the study of the properties of this condensate In recent years he has also turned his attention to physics education and new methods and research in that area This indispensable volume presents his collected papers with annotations from the author tracing his fascinating research path and providing valuable insight about the significance of the works **ESA Journal**, 1983 *The Historical Development of Quantum Theory* Helmut Rechenberg, 1982 **Nuclear Science Abstracts**, 1973 **Handbook of Grid Generation** Joe F. Thompson, Bharat K. Soni, Nigel P. Weatherill, 1998-12-29 Handbook of Grid Generation addresses the use of grids meshes in the numerical solutions of partial differential equations by finite elements finite volume finite differences and boundary elements Four parts divide the chapters structured grids unstructured grids surface definition and adaption quality An introduction to each section provides a roadmap through the material This handbook covers Fundamental concepts and approaches Grid generation process Essential mathematical elements from tensor analysis and differential geometry particularly relevant to curves and surfaces Cells of any shape Cartesian structured curvilinear coordinates unstructured tetrahedra unstructured hexahedra or various combinations Separate grids overlaid on one another communicating data through interpolation Moving boundaries and internal interfaces in the field Resolving gradients and controlling solution error Grid generation codes both commercial and freeware as well as representative and illustrative grid configurations Handbook of Grid Generation contains 37 chapters as well as contributions from more than 100 experts from around the world comprehensively evaluating this expanding field and providing a fundamental orientation for practitioners Improving Math and Science Education So that No Child is Left Behind United States. Congress. House. Committee on Science, 2001 **35th AIAA Thermophysics Conference**, 2001

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Journal of Research of the National Bureau of Standards ,1975 **Oclc 1967:1997** K. Wayne Smith, 2014-02-04 In
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