

Fundamentals of Physics Test Paper

Class: FYBSc

University: Pune University

Marks: 15

Time: 30 minutes

Section A: Multiple Choice Questions (4 Marks)

Choose the correct option for each question. Each question carries 1 mark.

1. Which of the following is Newton's First Law of Motion?

- a) $F = ma$
- b) Every action has an equal and opposite reaction
- c) An object remains at rest or in uniform motion unless acted upon by an external force
- d) Force is equal to the change in momentum per unit time

2. What is the unit of electric charge?

- a) Joule
- b) Coulomb
- c) Newton
- d) Tesla

3. Which of the following phenomena supports the wave theory of light?

- a) Photoelectric effect
- b) Compton scattering
- c) Diffraction
- d) Nuclear fusion

4. In which of the following conditions does a body experience free fall?

- a) When there is no friction
- b) When only gravity is acting on the body
- c) When there is an upward force balancing the weight
- d) When the body is in a vacuum chamber

Section B: Short Answer Questions (2 Marks each)

Answer the following questions briefly.

5. Define escape velocity. Derive the expression for the escape velocity of an object from Earth's surface.

Fundamentals Of Physics Tests

**J. Richard Christman, Robert
Resnick, Kenneth Brownstein, Jearl
Walker**



Fundamentals Of Physics Tests:

Fundamentals of Physics J. Richard Christman, Kenneth Brownstein, 1988-01-01 *Test Bank to Accompany*
Fundamentals of Physics J. Richard Christman, Robert Resnick, Kenneth Brownstein, Jearl Walker, 1993 **The Integrated Test Analysis Process for Structural Dynamic Systems** Robert N. Coppolino, 2019-11-15 Over the past 60 years the U S aerospace community has developed refined and standardized an integrated approach to structural dynamic model verification and validation One name for this overall approach is the Integrated Test Analysis Process ITAP for structural dynamic systems ITAP consists of seven sequential tasks namely 1 definition of test article finite element models 2 systematic modal test planning 3 measured data acquisition 4 measured data analysis 5 experimental modal analysis 6 systematic test analysis correlation and 7 reconciliation of finite element models and modal test data Steps 1 2 and 7 rely strictly on mathematical model disciplines and steps 3 and 4 rely on laboratory disciplines and techniques Current industry practice of steps 5 and 6 calls for interaction of mathematical model and laboratory disciplines which compromises the objectivity of both modeling and laboratory disciplines This book addresses technical content strategies and key relevant experiences related to all steps of ITAP except for measured data acquisition which is the specialized domain of highly experienced laboratory professionals who contend with mechanical and electrical practicalities of instrumentation excitation hardware and data collection systems Foundations of Quantum Theory E.M. Rasel, W.P. Schleich, S. Wölk, 2019-01-23 This volume provides a summary of the lectures presented at the International School of Physics Enrico Fermi on the Foundations of Quantum Theory organized by the Italian Physical Society in Varenna Italy from 8-13 July 2016 in collaboration with the Wilhelm und Else Heraeus Stiftung It was the first Enrico Fermi Summer School on this topic since 1977 Its main goal was to provide an overview of the recent theoretical and experimental developments in an active field of research the foundations of quantum mechanics The field is characterized by a dichotomy of unparalleled agreement between theory and experiment on the one hand and an enormous variety of interpretations of the underlying mathematical formalism on the other hand This proceedings of the Enrico Fermi Summer School of July 2016 contains 21 contributions on a range of topics the history and interpretations of quantum theory the principle of complementarity and wave particle duality quantum theory from first principles the reality of the wave function the concept of the photon measurement in quantum theory the interface of quantum theory and general relativity and quantum optical tests of quantum theory **Proceedings of the Central Association of Science and Mathematics Teachers** Central Association of Science and Mathematics Teachers (U.S.), 1917
United States Air Force Academy United States Air Force Academy, **Science Foundations: Physics** Bryan Milner, 2019-01-15 This title was first published in 2001 The new edition of Science Foundations provides comprehensive coverage of single and double award GCSE science It is fully revised and updated to match the new GCSE specifications for teaching from September 2001 It contains all the material required for the foundation and higher tiers with clear progression

and explicit differentiation Higher tier only material is clearly marked in separate spreads The language level is carefully controlled with illustrations and layout specifically designed to make the concepts accessible There are frequent opportunities for students to confirm their understanding of each key idea as it is introduced via short questions and summary passages on each spread The books include guidance for students on how to prepare for and answer their GCSE examinations and a glossary of key words for ease of reference

Fundamentals of Infrared and Visible Detector Operation and Testing John David Vincent, Steve Hodges, John Vampola, Mark Stegall, Greg Pierce, 2015-10-26 Presents a comprehensive introduction to the selection operation and testing of infrared devices including a description of modern detector assemblies and their operation This book discusses how to use and test infrared and visible detectors The book provides a convenient reference for those entering the field of IR detector design test or use those who work in the peripheral areas and those who teach and train others in the field Chapter 1 contains introductory material Radiometry is covered in Chapter 2 The author examines Thermal detectors in Chapter 3 the Classical photon detectors simple photoconductors and photovoltaics in Chapter 4 and Modern Photon Detectors in Chapter 5 Chapters 6 through 8 consider respectively individual elements and small arrays of elements the readouts ROICs used with large imaging arrays and Electronics for FPA Operation and Testing The Test Set and The Testing Process are analyzed in Chapters 9 and 10 with emphasis on uncertainty and trouble shooting Chapters 11 through 15 discuss related skills such as Uncertainty Cryogenics Vacuum Optics and the use of Fourier Transforms in the detector business Some highlights of this new edition are that it Discusses radiometric nomenclature and calculations detector mechanisms the associated electronics how these devices are tested and real life effects and problems Examines new tools in Infrared detector operations specifically selection and use of ROICs electronics for FPA operation operation of single element and very small FPAs microbolometers and multi color FPAs Contains five chapters with frequently sought after information on related subjects such as uncertainty optics cryogenics vacuum and the use of Fourier mathematics for detector analyses

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Educational Tests and Measurements Walter Scott Monroe, James Clarence De Voss, Frederick James Kelly, 1924

Piezocone and Cone Penetration Test (CPTu and CPT) Applications in Foundation Engineering Abolfazl Eslami, Sara Moshfeghi, Hossein MolaAbasi, Mohammad M. Eslami, 2019-11-23 Piezocone and cone penetration tests CPTu and CPT applications in foundation engineering includes different approaches for determining the bearing capacity of shallow foundations along with methods for determining pile bearing capacity and settlement concepts The use of soft computing GMDH neural networks related to CPT records and Geotechnical parameters are also discussed In addition

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behind the diverse methods of the natural sciences lies a common core of scientific rationality **Announcements**

University of Chicago,1978 Iit Foundations - Physics Class 9 Pearson,2009-09 IIT Foundation series is specifically for students preparing for IIT right from school days The series include books from class 8 to class 10th in physics chemistry mathematics Report to Congress on Stockpile Reliability, Weapon Remanufacture, and the Role of Nuclear Testing

George H. Miller,1987 Officer Candidate Tests For Dummies Jane R. Burstein,Carolyn C. Wheeler,2011-05-10 The easy way to prepare for officer candidate tests Want to ace the AFOQT ASVAB or ASTB Help is here Officer Candidate Tests For Dummies gives you the instruction and practice you need to pass the service specific candidate tests and further your military career as an officer in the Army Air Force Navy Marine Corps or Coast Guard Packed with practice questions and easy to follow information Officer Candidate Tests For Dummies gives you a comprehensive review of all subjects covered on the tests an explanation of the test formats and everything you need to understand and conquer the exams Includes practice exams for each test More subject matter instruction than any other book on the market Covers all of the latest updates to the exams Whether you re aspiring to become an officer in the military by attending a service academy ROTC or Officer Candidate School or are already in the military and working to advance your career Officer Candidate Tests For Dummies has you covered

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