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(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2013

(CUCBS)

Physics

PHY 1C 01—CLASSICAL MECHANICS

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A*Answer all questions.**Each question carries a weightage of 1.*

1. Discuss D'Alembert's principle.
2. State and explain the principle of least action.
3. Explain the advantages of using generalised co-ordinates.
4. Write a note on infinitesimal Canonical transformation.
5. Give the physical significance of Hamiltons characteristic function.
6. Explain the advantage of using action angle variables.
7. Distinguish between space fixed and body fixed system of co-ordinates.
8. What are Euler's angles.
9. Explain principal axis transformation.
10. What are normal co-ordinates.
11. Explain Singular points of trajectories.
12. Define period doubling.

(12 × 1 = 12 weightage)

Section B*Answer any two questions.**Each question carries a weightage of 6.*

13. Derive Lagrange's equation from Hamiltons principle.
14. Using Hamilton Jacobi equation deduce Schrödinger equation.
15. Prove that the angular momentum of a rotating body is $\vec{J} = \vec{I} \vec{\omega}$ where $\vec{I}$ is the inertia tensor.
16. Obtain the eigen vectors and eigen values of small oscillations.

(2 × 6 = 12 weightage)

Turn over

Fe Sem Question Papers

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Fe Sem Question Papers:

Nordic Pulp & Paper Research Journal, 1998 *Sample Question Papers for ISC Science Stream Class 12 Semester I Exam 2021* Oswal - Gurukul, 2021-10-04 Prepare Well Perform Outstandingly with Oswal Gurukul Science Stream Sample Question Papers for ISC 12th Class Semester 1 Examination 2021 This Practice Book includes Science Subject test papers combined together such as English I II Mathematics Computer Science Physics Chemistry Biology Physical Education How can you benefit from Oswal Gurukul ISC Science Sample Papers for 12th Class Our Sample Question Handbook Includes subject wise question papers strictly based on the Modified Assessment Plan issued by the board on 6th August 2021 1 Strictly based on the Reduced Syllabus prescribed by council in July 2 Entire Syllabus covered for Semester 1 Exam 3 Fully Solved Questions based on New Specimen Question Paper Pattern given in Aug Sept 2021 4 All Science Stream Subjects Combined in One Book 5 Well explained Expert Answers for Better Understanding 6 Focused on Topics most likely to be asked in Boards *Light Metals 2017* Arne P. Ratvik, 2017-02-10 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2017 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology Cast Shop Technology Cast Shop Technology Recycling and Sustainability Joint Session Electrode Technology The Science of Melt Refining An LMD Symposium in Honor of Christian Simensen and Thorvald Abel Engh **Role of Characterization in Understanding Environmental Degradation of Materials** International Metallographic Society. Technical Meeting, 1998 Proceedings of a July 1997 convention covering both traditional and newer characterization techniques for understanding environmental degradation Contains sections on corrosion characterization of materials behavior and performance corrosion of materials in water and marine environments surface **Goyal's ISC Physics Question Bank with Model Test Papers for Class 12 Semester 2 Examination 2022** Manisha Patro, Biswasha Tejaswini, 2022-01-01 Goyal's ISC Physics Question Bank with Model Test Papers for Class 12 Semester 2 Examination 2022 CISCE's Modified Assessment Plan for Academic Year 2021-22 Reduced and Bifurcated Syllabus for Semester 2 Examination Chapterwise Summary and Important Points Chapterwise Question Bank having all varieties of expected Questions with answers for Semester 2 Examination to be held in March April 2022 Specimen Question Paper Solved for Semester 2 Examination issued by CISCE 5 Model Test Papers based on the latest specimen question paper issued by CISCE for Semester 2 Examination to be held in March April 2022 Goyal Brothers Prakashan *B.Sc. Sem. 3 & 4 and 2nd year Chemistry old question papers* PRAHSIDDH Educare, 2024-06-05 Examination conducted by Bhavnagar University like B Sc Chemistry There is a set of old question papers of semester 2 and 3 as well as second year **61**
Sample Question Papers for ICSE Class 10 Semester II Exam 2022 Oswal - Gurukul, 2022-01-30 **Physics and**

Chemistry of Ice Werner Kuhs, 2007-10-31 Physics and Chemistry of Ice is an authoritative summary of state of the art research contributions from the world's leading scientists. A key selection of submissions from the 11th International Conference on the Physics and Chemistry of Ice 2006 are presented here with a foreword by Werner F Kuhs. An invaluable resource, this book provides researchers and professionals with up to date coverage on a wide range of areas in ice science including Spectroscopic and diffraction studies, Molecular dynamics simulations, Studies of Ice Mechanics, Quantum mechanical ab initio calculations, Ice and hydrate crystal growth and inhibition studies, Bulk and surface properties of ice and gas hydrates, Snow physics and chemistry. This insight into topical aspects of ice research is a key point of reference for physicists, chemists, glaciologists, cryo biologists and professionals working in the fields of ice and hydrogen bonding.

Japanese Science and Technology, 1988 **Engineering Mechanics** Anup Goel, H. J. Sawant, 2021-01-01 Engineering mechanics is the branch of the physical science which describes the response of bodies or systems of bodies to external behaviour of a body in either a beginning state of rest or of motion subjected to the action of forces. It bridges the gap between physical theory and its application to technology. It is used in many fields of engineering especially mechanical engineering and civil engineering. Much of engineering mechanics is based on Sir Issac Newton's laws of motion. Within the practical sciences, engineering mechanics is useful in formulating new ideas and theories, discovering and interpreting phenomena and developing experimental and computational tools. Engineering mechanics is the application of applied mechanics to solve problems involving common engineering elements. The goal of this engineering mechanics course is to expose students to problems in mechanics as applied to plausibly real world scenarios. Problems of particular types are explored in detail in the hopes that students will gain an inductive understanding of the underlying principles at work. Students should then be able to recognize problems of this sort in real world situations and respond accordingly. Our hope is that this book through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

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