

33336

(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 Hamilton's 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 Hamilton's 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

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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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