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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

M Walker



Fe Sem Question Papers:

The book delves into Fe Sem Question Papers. Fe Sem Question Papers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Fe Sem Question Papers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Fe Sem Question Papers
- Chapter 2: Essential Elements of Fe Sem Question Papers
- Chapter 3: Fe Sem Question Papers in Everyday Life
- Chapter 4: Fe Sem Question Papers in Specific Contexts
- Chapter 5: Conclusion

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