

**FIRST SEMESTER M.Sc. (CSS) DEGREE EXAMINATIONS,
JANUARY 2018**

(Regular / Supplementary / Improvement)

Physics

PHY1 C01: Classical Mechanics

Time: 3 Hours

Max. Weightage: 36

I. Answer all questions:

(12 x 1 = 12 Weightage)

1. What are generalized coordinates? What is the advantage of using them?
2. Discuss D'Alembert's principle.
3. Distinguish clearly the Lagrangian, Hamiltonian and Newtonian formulations from each other.
4. In what circumstances is the characteristic function W more useful than the special function S .
5. What are fundamental Poisson brackets? Deduce them.
6. What is a constant of motion? How can one obtain the constants of motion?
7. Is the centrifugal force fictitious one? Explain.
8. Distinguish between space fixed and body fixed system of coordinates.
9. Show that Eigen vectors corresponding to the two distinct Eigen frequencies are orthogonal.
10. Write down the Lagrangian of a linear diatomic molecule.
11. Define period doubling.
12. What is Chaos? How does it arise?

II. Answer any two of the following questions:

(2 x 6 = 12 Weightage)

13. Discuss the problem of scattering of charged particles by a Coulomb field and obtain Rutherford's formula for the scattering cross-section.
14. Give an account of the Hamilton Jacobi theory and illustrate it by applying it to the Kepler's problem.
15. What are Euler angles? Draw a neat diagram showing these angles. What will happen if their order is not maintained?
16. Obtain the non-linear equation for a pendulum. Derive the exact solution of the equation in terms of elliptic integral.

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Shasha Hu



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