

**FIRST YEAR B.Sc. DEGREE EXAMINATION, APRIL/MAY 2005****Part III—Physics Subsidiary****Paper I—MECHANICS, PROPERTIES OF MATTER, THERMAL PHYSICS, LAGRANGIAN DYNAMICS AND THEORY OF RELATIVITY**

(For Maths Main)

Time : Three Hours

Maximum : 50 Marks

**Section A***Answer any two questions.  
Each question carries 7 marks.*

1. Derive Lagrangean equation of motion using D'Alembert's principle.
2. Derive an expression for the excess of pressure over a curved surface. Write a note on the variation of Surface Tension with temperature.
3. Distinguish between Isothermal and Adiabatic process. Derive the expression for the work done by a perfect gas in (i) isothermal change and (ii) ~~an~~ adiabatic change.
4. Describe the Michelson-Morley experiment and explain the physical significance of the negative result.

*(2 × 7 = 14 marks)***Section B***Answer any twelve questions.  
Each question carries 2 marks.*

5. Find an expression for the Moment of Inertia of a solid disc.
6. Derive the relation between the elastic constants.
7. What are damped and forced oscillations ?
8. Find the variation of intrinsic energy with volume for a gas obeying Van der Waals equation.
9. Explain entropy change in an irreversible process.
10. Define torque and angular momentary.
11. Explain 'length contraction' and time dilation'
12. State two laws of thermodynamics and explain their significance.
13. What are reversible and irreversible processes ?
14. Derive  $Pv^{\gamma} = \text{constant}$  for an ideal gas.
15. How is energy distributed in a black body spectrum ?
16. Show that Rayleigh - Jeans law and Wien's law are special cases of Planck's law.
17. Explain Weidmann and Franz law.

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## **Model Exam Paper Bsc Physics Second Semester:**

*Nature* Sir Norman Lockyer, 1889      **Publishers' circular and booksellers' record** ,1894      **Universities Handbook** ,1995      **Mechanics (Physics for Civil Engineering and Print Technology)** Dr. Jitendra Gaur, 2022-08-02  
This book covers the latest syllabus of B Tech 1st year Civil Engineering Printing Technology UG Course of Maharshi Dayanand University Rohtak Haryana and G scheme of AICTE The book covers almost 100% of the syllabus Number of solved problems along with important questions and previous year university exam papers are enclosed in the book      **The Proceedings of the First Chancellor College Research Dissemination Conference** ,2001      **Chemist and Druggist** ,1902      *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2005      **The Builder** ,1916      **Traffic Engineering & Control** ,1984      The Leading Edge ,1994      **The Physics of Fast Reactor Operation and Design** ,1969      **The Electrical Journal** ,1907  
The Chartered Mechanical Engineer ,1965      Using Computers in the Design of Fluid Machinery Institution of Mechanical Engineers (Great Britain). Fluid Machinery Committee, 1993-04-15 A book of papers presented at a seminar organized by the fluid machinery committee on the subject of using computers in the design and selection of fluid machinery Some of the topics covered include computer design specification of fluid machinery selection and optimization of centrifugal compressors for oil and gas applications and utilizing the benefits of EDI in the pumping industry      *Evaluating Teaching in Higher Education* ,1975      **The British Printer** ,1960      The Electrician ,1907      **Plastics & Polymers** ,1969  
**Transactions and Journal** Plastics Institute, 1966      **Government Reports Announcements & Index** ,1984-12

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In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Model Exam Paper Bsc Physics Second Semester**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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