

# M.Sc., 4th Semester Examination, 2016 (2014-2016) CBCS

# Subject: Physics

# Paper: MPHYS-0401

#### Time: I Hour

Full Marks: 20

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

- Answer any two questions:
  - (a) Prove that an ideal Bose gas cannot exhibit superfluidity.
  - (b) What is the Debey formula for the specific heat of a solid? Show that it reduces to the Einstein's T<sup>3</sup> law at low temperature limit.
  - (c) If the Bose condensation occurs in liquid He4 kept at 2.17 K at some pressure. Assuming He4 as a perfect Bose gas, find the temperature at which Bose condensation will occur in He4 in gaseous state whose density is 1000 times smaller than that of liquid  $He^4$ .
  - (d) Find out the fluctuation in average number of particles in the case of a Fermi gas,
- Answer any two questions:

 $8 \times 2 = 16$ 

 $2 \times 2 = 4$ 

- (i) State the basic features of the BE-condensation.
  - (ii) Derive the expression of energy of a BE-condensate and hence show that it emerges through 2+(3+3)=8a first-order phase transition.
- (b) Consider a chain of N Ising spins (s<sub>i</sub> = ± 1). The Hamiltonian H = -J Σ<sub>i</sub> s<sub>i</sub>s<sub>i+1</sub> μ<sub>B</sub>B Σ<sub>i</sub>s<sub>i</sub> (symbols have their usual meanings). Using the periodic boundary condition  $s_{N+1} = s_1$ ,
  - (i) Find the Helmholtz free energy and compute the magnetization.

3 + 3

- (ii) Obtain spontaneous magnetization at temperature T = 0 and show that for any finite temperature the system manifest paramagnetic behavior.
- (c) (i) Define phase transition in terms of order parameter.
  - (ii) Landau's expansion of free energy near critical point is given by:

G  $(\phi, T) = G_0(T) + \frac{a}{2} \phi^2 + \frac{b}{4} \phi^4 + \frac{c}{6} \phi^6$ 

Using the above expression clearly explain

- (1) Continuous phase transition and
- (II) First order phase transition.

(d) Consider a system of electrons in an external magnetic field H. Show that the system shows a diamagnetic property.

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#### **Table of Contents Ba V Th Sem Question Paper**

- 1. Understanding the eBook Ba V Th Sem Question Paper
  - The Rise of Digital Reading Ba V Th Sem Question Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ba V Th Sem Question Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ba V Th Sem Question Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ba V Th Sem Question Paper
  - Personalized Recommendations
  - Ba V Th Sem Question Paper User Reviews and Ratings
  - Ba V Th Sem Question Paper and Bestseller Lists

- 5. Accessing Ba V Th Sem Question Paper Free and Paid eBooks
  - Ba V Th Sem Question Paper Public Domain eBooks
  - Ba V Th Sem Question Paper eBook Subscription Services
  - Ba V Th Sem Question Paper Budget-Friendly Options
- 6. Navigating Ba V Th Sem Question Paper eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Ba V Th Sem Question Paper Compatibility with Devices
  - o Ba V Th Sem Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ba V Th Sem Question Paper
  - Highlighting and Note-Taking Ba V Th Sem Question Paper
  - o Interactive Elements Ba V Th Sem Question Paper
- 8. Staying Engaged with Ba V Th Sem Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ba V Th Sem Question Paper
- 9. Balancing eBooks and Physical Books Ba V Th Sem Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ba V Th Sem Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ba V Th Sem Question Paper
  - Setting Reading Goals Ba V Th Sem Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ba V Th Sem Question Paper
  - Fact-Checking eBook Content of Ba V Th Sem Question Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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