

91034

B.Sc. 1st Semester (Hons) Examination,  
November-2014

CHEMISTRY

Paper-II

Physical Chemistry

Time allowed : 3 hours]

[Maximum marks : 40

Note : Attempt five questions in all, Question 1 is compulsory. Select one question from each section.

1. (a) What is the effect of temperature on most probable speed? 1 × 8 = 8
- (b) Define Crystal Habit.
- (c) Under what condition, the non-ideal gas behaves like ideal gas ?
- (d) Define Mean free path.
- (e) What is the formula of kinetic energy of one molecule of ideal gas ?
- (f) Write BET equation.
- (g) In which adsorption, unimolecular layer formation takes place ?
- (h) Define Inversion temperature.

Section-I

2. (a) To-derive  $\left[ \pi + \frac{3}{\phi^2} \right] (3\phi - 1) = 8\theta$  from van der Waal equation. 4,4

91034-P-4-Q-9(14)

[P.T.O.]

# Bsc Part First Physical Chemistry Question Paper

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## **Table of Contents Bsc Part First Physical Chemistry Question Paper**

1. Understanding the eBook Bsc Part First Physical Chemistry Question Paper
  - The Rise of Digital Reading Bsc Part First Physical Chemistry Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Bsc Part First Physical Chemistry 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 Bsc Part First Physical Chemistry Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bsc Part First Physical Chemistry Question Paper
  - Personalized Recommendations
  - Bsc Part First Physical Chemistry Question Paper User Reviews and Ratings
  - Bsc Part First Physical Chemistry Question Paper and Bestseller Lists

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