

Con. 2439-09.

( 2 Hours )

VR-1015

[ Total Marks : 75

- N.B. :** (1) Question No.1 is compulsory.  
 (2) Attempt any four questions from remaining six questions.  
 (3) Figures to the right indicate full marks.  
 (4) All questions carry equal marks.

1. Attempt any five from the following :-

15

- Distinguish between Addition polymerisation and Condensation polymerisation.
- What are Nano-materials ? Give two properties of Nano-materials which make them different and superior to Conventional materials.
- What is Grease ? Under which situation it is used as a lubricant ?
- A water sample contains :-
  - $\text{Mg}(\text{HCO}_3)_2 = 14.6 \text{ ppm}$
  - $\text{Mg}(\text{NO}_3)_2 = 29.6 \text{ ppm}$
  - $\text{Ca}(\text{HCO}_3)_2 = 8.1 \text{ ppm}$
  - $\text{Mg} \text{Cl}_2 = 19 \text{ ppm}$
  - $\text{Mg} \text{SO}_4 = 24 \text{ ppm}$

Calculate the temporary and permanent hardness of water sample.

(At. wt. C = 40, Mg = 24, H = 1, Cl = 35.5, S = 32, O = 16)

- What is triple point ? Explain it with reference to one component water system.
- Explain Nickel-Hydrogen ( $\text{Ni-H}_2$ ) batteries with the help of chemical reactions.
- Explain the preparation, properties and uses of PMMA.

- What are the main constituent of plastics ? Write the functions and examples of each constituent. 5
  - What is condensed phase rule equation ? Explain its application with the help of phase diagram to two Component Lead - Silver ( $\text{Pb-Ag}$ ) system. 6
  - 9 ml oil is taken from machine and it requires 1.5 ml of 0.04 N KOH. Find acid value (density of oil = 0.81 g/ml). 4
- How demineralization of water is carried out ? 6
  - Explain the following terms : 6
    - Number Average Molecular wt. ( $\bar{M}_n$ )
    - Vulcanization
    - Liquid crystal properties of polymers.
  - Write the classification of plain C steel on the basis of Carbon Content. 3

# Question Paper Applied Chemistry Semester

**M Carnoy**



**Question Paper Applied Chemistry Semester:**

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### Table of Contents Question Paper Applied Chemistry Semester

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

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