

**T.Y.B.Sc. Semester 5 Mock Exam Question Paper**  
**Chemistry Paper I – Physical Chemistry**  
**Multiple Choice Questions**

- Q1 Vapour pressure of a liquid solvent .....when a non volatile solute is dissolve in it. 1M  
a) Increase  
b) Decrease  
c) no change  
d) Expand
- Q2 Raoult's law is expressed by.....  
a)  $\frac{P^* - P}{P^*} = X_2$   
b)  $\frac{P - P^0}{P^*} = X_2$   
c)  $\frac{P - P^0}{P} = X_2$   
d)  $\frac{P - P^0}{P^*} = X$
- Q3 ..... is used in Rast method because it has a high value of  $K_f$ .  
a) Camphor  
b) Bi phenyl  
c) Naphthalene  
d) Sodium chloride
- Q4 Boiling point elevation of the solution  $\Delta T_b$  is given as.....  
a)  $\Delta T_b = T - T_0$   
b)  $\Delta T_b = T_0 - T$   
c)  $\Delta T_b = T + T_0$   
d)  $\Delta T_b = T \times T_0$
- Q5 The unit for activation of energy is .....  
a)  $\text{kJ mol}^{-1}$   
b)  $\text{kJ K}^{-1}$   
c)  $\text{kJ K}^{-1} \text{mol}^{-1}$   
d)  $\text{kJ R}^{-1}$

# Physical Science Core Sem 1 Answer Key

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the United States Air Force Academy text.

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## **Table of Contents Physical Science Core Sem 1 Answer Key**

1. Understanding the eBook Physical Science Core Sem 1 Answer Key
  - The Rise of Digital Reading Physical Science Core Sem 1 Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Core Sem 1 Answer Key
  - 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 Physical Science Core Sem 1 Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Core Sem 1 Answer Key
  - Personalized Recommendations
  - Physical Science Core Sem 1 Answer Key User Reviews and Ratings
  - Physical Science Core Sem 1 Answer Key and Bestseller Lists
5. Accessing Physical Science Core Sem 1 Answer Key Free and Paid eBooks
  - Physical Science Core Sem 1 Answer Key Public Domain eBooks
  - Physical Science Core Sem 1 Answer Key eBook Subscription Services
  - Physical Science Core Sem 1 Answer Key Budget-Friendly Options

6. Navigating Physical Science Core Sem 1 Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Core Sem 1 Answer Key Compatibility with Devices
  - Physical Science Core Sem 1 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Core Sem 1 Answer Key
  - Highlighting and Note-Taking Physical Science Core Sem 1 Answer Key
  - Interactive Elements Physical Science Core Sem 1 Answer Key
8. Staying Engaged with Physical Science Core Sem 1 Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Core Sem 1 Answer Key
9. Balancing eBooks and Physical Books Physical Science Core Sem 1 Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Core Sem 1 Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Core Sem 1 Answer Key
  - Setting Reading Goals Physical Science Core Sem 1 Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Core Sem 1 Answer Key
  - Fact-Checking eBook Content of Physical Science Core Sem 1 Answer Key
  - 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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