

**CHEMISTRY** (پاپر : I (Essay Type) ) (پاپر : I (انشائیہ طرز) )  
 Time Allowed : 1.45 hours (وقت : 1.45 گھنٹے)  
 Maximum Marks : 48 (کل نمبر : 48)

- 2- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے :  
 (i) Define Avogadro's Number. (ii) What is meant by mole? (iii) Differentiate between shell and subshell. (iv) Write electronic configuration of argon. (v) Write the trend of shielding effect in period and group. (vi) Define electronegativity. (vii) Why atomic number is a more fundamental property than atomic mass? (viii) Write names of elements of first period.

- 3- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے :  
 (i) Why do atoms react? (ii) Define chemical bond. (iii) Write name of different types of chemical bond. (iv) What is diffusion? Explain with an example. (v) Define standard atmospheric pressure. (vi) What is difference between dilute solution and concentrated solution? (vii) Define unsaturated solution. (viii) Give an example for "Gas in Solid" solution.

- 4- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے :  
 (i) Write difference between spontaneous and non-spontaneous reactions. (ii) Define non-electrolytes and give example. (iii) Define corrosion. (iv) What do you mean by galvanizing? Write its advantages. (v) Write two physical properties of metals. (vi) What is the trend of electropositivity in group? (vii) Why platinum is used for jewellery making? (viii) Write reaction of fluorine with water.

- ( PART - II )  
 Note : Attempt any TWO questions.  
 5- (الف) 6 گرام پانی میں مولز اور مالیکیولز کی تعداد معلوم کیجئے۔ (ب) رد فعل کے تجربے کو کوئی سے دو نتائج اور دو نتائج لکھئے۔  
 6- (الف) آئیونک بانڈ سے کیا مراد ہے؟ سوڈیم اور کلورین کے درمیان آئیونک بانڈ بننے کے عمل کی وضاحت کیجئے۔ (ب) کریسٹالین اور امورفوس جسموں میں فرق واضح کیجئے۔  
 7- (الف) گیلوانک سیل کیا ہے؟ الیکٹروڈ ایکٹس اور ایکٹو سیل کے مابین چار فرق لکھئے۔ (ب) سولوبیلیٹی سے کیا مراد ہے؟ فیوچر کے کاسولوبیلیٹی پر اثر مابین لکھئے۔

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### **Table of Contents Kssat Papers 23**

1. Understanding the eBook Kssat Papers 23
  - The Rise of Digital Reading Kssat Papers 23
  - Advantages of eBooks Over Traditional Books
2. Identifying Kssat Papers 23
  - 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 Kssat Papers 23
  - User-Friendly Interface
4. Exploring eBook Recommendations from Kssat Papers 23
  - Personalized Recommendations
  - Kssat Papers 23 User Reviews and Ratings
  - Kssat Papers 23 and Bestseller Lists

5. Accessing Kssat Papers 23 Free and Paid eBooks
  - Kssat Papers 23 Public Domain eBooks
  - Kssat Papers 23 eBook Subscription Services
  - Kssat Papers 23 Budget-Friendly Options
6. Navigating Kssat Papers 23 eBook Formats
  - ePub, PDF, MOBI, and More
  - Kssat Papers 23 Compatibility with Devices
  - Kssat Papers 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Kssat Papers 23
  - Highlighting and Note-Taking Kssat Papers 23
  - Interactive Elements Kssat Papers 23
8. Staying Engaged with Kssat Papers 23
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kssat Papers 23
9. Balancing eBooks and Physical Books Kssat Papers 23
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kssat Papers 23
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Kssat Papers 23
  - Setting Reading Goals Kssat Papers 23
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Kssat Papers 23
  - Fact-Checking eBook Content of Kssat Papers 23
  - 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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