



Code Number:

**A****Aakash****Medical | IIT-JEE | Foundations**

Corp. Office: Aakash Educational Services Limited, 3rd Floor, Incuspaze Campus- 2, Plot No. 13,  
Sector- 18, Udyog Vihar, Gurugram, Haryana - 122015

Time: 3 hrs.

**Mock Test Paper for Class-XII**

Max. Marks: 60

**CHEMISTRY**

Roll No.

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**GENERAL INSTRUCTIONS**

Read the following instructions carefully and follow them:

1. The Question paper consists of section **A, B, and C**
2. Answer all the questions of **Section A**. Answer ANY **SIX** questions out of **eight** in **Section B** and answer **ANY TWO** questions out of **three** "in **Section C**."
3. In **Section A**, questions from Sl. Nos. **1 to 10** are of '**very short answer type**'. Each question carries **TWO** marks. Every answer may be limited to **5** lines. Answer all the questions at one place in the same order.
4. In **Section B**, questions from Sl. Nos. **11 to 18** are of '**short answer type**'. Each question carries **FOUR** marks. Every answer may be limited to **20** lines. Answer any **SIX** questions out of 8 questions..
5. In **Section C**, questions from Sl. Nos. **19 to 21** are of '**long answer type**'. Each question carries **EIGHT** marks. Every answer may be limited to **60** lines. Answer any **TWO** questions out of 3 questions.
6. Draw labelled diagrams, wherever necessary for questions in **Sections B and C**.

## SECTION-A

- I. **Answer all the following questions** **10 × 2 = 20 M**
1. State Raoult's law and give its two limitations
  2. What is primary battery? Give one example
  3. Write any two ores of  
(a) Aluminum (b) Zinc
  4. Nitrogen molecule is highly stable. Why?
  5.  $\text{SO}_2$  can be used as antichlor. Explain.
  6. What is ambidentate ligand? Give example.
  7. What are antacids? Give example.
  8. What are antiseptics? Give example.
  9. What is Ziegler-Natta Catalyst
  10. What is Zwitter ion? Give an example

## SECTION-B

- II. **Answer any six of the following questions** **6 × 4 = 24 M**
11. Describe the two main types of semi-conductors and contrast their conduction mechanism.
  12. (a) Calculate molarity of 2.5g of ethanoic acid ( $\text{CH}_3\text{COOH}$ ) in 75g of benzene  
(b) Calculate molality of solution containing 5g of  $\text{NaOH}$  in 450ml solution
  13. What is catalysis? How is catalysis classified? Give two example for each type of catalysis.
  14. Explain the purification of sulphide ore by froth flotation method.
  15. Explain Werner's theory of coordination compounds with suitable examples.
  16. Write the names and structures of monomers used for getting the following polymers  
(1) Polyvinylchloride (2) Teflon (3) Bakelite (4) Polystyrene
  17. Give the sources of the following vitamins and name the diseases caused by their deficiency  
(a) A (b) D (c) E (d) K
  18. Explain the following named reactions  
(i) Sandmeyer reaction  
(ii) Gatterman reaction.

## SECTION-C

- III. **Answer any two of the following questions** **2 × 8 = 16 M.**
19. (a) What are galvanic cells? Explain the working of galvanic cells with neat sketch taking Daniel cell as example  
(b) State and explain Kohlrausch's law of independent migration of ions.

20. (a) How nitric acid manufactured by Ostwald's process?  
(b) How ozone reacts with
- (a) Pbs                      (b) KI                      (c) NO                      (d) Ag
21. Describe following reactions
- (a) Sandmeyer reaction                      (b) Reimer – Tiemann reaction  
(b) Cannizzaro reaction                      (d) Decarboxylation

