

REVISION EXAM JAN-2023**XIIth - MODEL EXAM****Time Allowed: 1.30Hours] [Maximum Marks: 50****CHEMISTRY****PART – I****Answer any *Ten* of the following questions. 10x2=20**

1. What is Smelting?
2. What is Auto reduction?
3. Write the uses of potassium dichromate.
4. Explain why Mn^{2+} is more stable than Mn^{3+} ?
5. What is crystal field splitting energy?
6. What is Bragg's equation?
7. Give two examples of zero order reaction.
8. Calculate the pH of 0.001M HCl solution.
9. State Kohlrausch's law.
10. What are buffer solutions?
11. What is meant by salt hydrolysis?
12. Write the Zwitter ion structure of alanine
13. What are food preservatives?
14. Write a short note on peptide bond
15. Write a note on vulcanization of rubber?

PART - II**Answer any *Ten* of the following questions. 10x3=30**

16. What is the role of Limestone in the extraction of Iron from its oxide Fe_2O_3 ?
17. What are the differences between minerals and ores?
18. Describe the preparation of potassium dichromate.
19. Why transition elements form complexes.
20. Give the difference between double salts and coordination compounds.
21. What is meant by packing efficiency?
22. Distinguish : rate of a reaction and rate constant of a reaction?
23. State : Ostwald's dilution law.
24. State Faraday's Laws of electrolysis
25. Write a note on ultrafiltration.
26. Define : Buffer index (β).
27. How are vitamins classified
28. What are drugs? How are they classified
29. Give the three differences between DNA and RNA.

30. How is Teflon prepared?

