XIth -REVISION EXAM JAN-2023
Time Allowed: 1.30Hours]   [Maximum Marks: 50

CHEMISTRY
PART - I

Answer any *Ten* of the following questions.   10x2=20

1. Define relative atomic mass.
2. Explain the term limiting reagent.
3. What is screening effect?
4. How is tritium prepared?
5. Give the uses of washing soda.
6. State Boyle's law.
7. What is meant by Inversion temperature (T_i) ?
8. State Le-Chatelier principle.
9. What is osmosis?
10. What is a pi bond?
11. Write a note on homologous series.
12. Describe optical isomerism with suitable example.
13. What are degradable and non-degradable pollutants?
14. Define Acid rain.
15. Define smog.

PART - II

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

16. Calculate relative molecular mass of glucose ($C_6H_{12}O_6$).
17. Distinguish between oxidation and reduction.
18. Explain the pauling method for the determination of ionic radius.
19. How do you convert para hydrogen into ortho hydrogen ?
20. What are the similarities between lithium and magnesium.
21. Write the various units of Gas constant (R) ?
22. Distinguish between diffusion and effusion ?
23. State law of mass action.
24. Define (i) molality (ii) Normality
25. Describe fajan's rule.
26. Give the general characteristics of organic compounds?
27. Describe the classification of organic compounds based on the structure.
28. What are particulate pollutants? Explain any three.
29. Differentiate the following
       (i) BOD and COD   (ii) Viable and non-viable particulate pollutants

30. What is green chemistry?