

B.Sc. DEGREE EXAMINATION, NOVEMBER 2018
II Year III Semester
Core Major - Paper VI
GENERAL CHEMISTRY - VI

Time : 3 Hours

Max.marks :60

Section A ($10 \times 1 = 10$) Marks

Answer any **TEN** questions

1. How will you prepare Succinic acid?
2. What is trans esterification?
3. Write down the preparation of methoxy ethane.
4. What is an epoxide?
5. What is Grignard reagent? State its applications.
6. Give any one use of organo lead compound.
7. Define food adulteration.
8. What is MSG?
9. Define normality.
10. Mention two redox indicators.
11. Distinguish primary standard and secondary standard solutions.
12. What is Reformatsky reaction?

Section B ($5 \times 4 = 20$) Marks

Answer any **FIVE** questions

13. Write a note on the effect of substituent on acidity of carboxylic acids.
14. Discuss the preparation, properties and uses of diethyl ether.
15. How organo lithium compounds are prepared? Give example.
16. Discuss the legal aspects of food adulteration.
17. Discuss any one theory of indicators.
18. Discuss the mechanism of Dieckmann reaction.
19. What are food additives? How are they classified? Explain.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Discuss the mechanism of alkaline hydrolysis of ester.
21. Explain the preparation, properties and uses of epoxides.
22.
 - a. Discuss the chemistry of organo lead compounds.
 - b. Explain the principle behind iodometric and iodimetric titrations.
23. Explain common food adulterants and testing methods.
24. With suitable titration, explain the applications of complex formation titration.

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