

B.Sc. DEGREE EXAMINATION, APRIL 2020
III Year VI Semester
Organic Chemistry - II

Time : 3 Hours

Max.marks :60

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

Answer any **TEN** questions

1. How is salicylaldehyde prepared from phenol?
2. How will you prepare ethyl benzene from acetophenone?
3. What are non-essential amino acids?
4. What is peptide bond?
5. Write the reaction of glucose with excess phenyl hydrazine.
6. Draw the structure of sucrose.
7. State isoprene rule.
8. What are fat soluble vitamins?
9. What is meant by sigmatropic rearrangement?
10. Write the equation of Beckmann rearrangement.
11. Define isoelectric point.
12. Mention the uses of cellulose.

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

Answer any **FIVE** questions

13. Discuss the preparation and two properties of ethanal.
14. What are the types of RNA? Discuss their biological function.
15. Explain the term mutarotation.
16. Discuss the general methods of isolation of alkaloids.
17. Write the mechanism of pinacol-pinacolone rearrangement.
18. How will you convert glucose in to fructose?
19. Write any two methods of preparation of an α -amino acid.

Section C ($3 \times 10 = 30$) MarksAnswer any **THREE** questions

20. Discuss the preparation and properties of cinnamaldehyde and benzophenone.
21. (a.) Explain the Merrifield's method of polypeptide synthesis. (5)
(b.) Describe the secondary structure of proteins. (5)
22. Describe the constitution of fructose.
23. Discuss the structural elucidation of ascorbic acid.
24. Explain the mechanism of following rearrangement reactions
(a) Hoffmann (b) Benzilic acid (5+5)

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