

B.Sc. DEGREE EXAMINATION, APRIL 2020
I Year II Semester
Allied Chemistry - II

Time : 3 Hours

Max.marks :60

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

Answer any **TEN** questions

1. What is the composition of cellulose?
2. What is the reaction of glucose with Fehling's solution?
3. How are amino acids classified?
4. What is denaturation of protein?
5. Name any two sedatives.
6. Mention any two causes of diabetes.
7. What is sublimation?
8. Differentiate between fractional distillation and vacuum distillation.
9. What is R_f value.
10. Name any two stationary phase used in column chromatography.
11. What is mutarotation?
12. How are proteins classified according to their shapes?

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

Answer any **FIVE** questions

13. Explain the inter conversion of glucose to fructose.
14. Describe the preparation and properties of α – amino acids
15. List the various differences between DNA and RNA.
16. Write a note on tranquilisers.
17. Explain the process of sublimation in separation techniques
18. Discuss the principle of thin layer chromatography.
19. Describe the properties of starch.

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

Answer any **THREE** questions

20. Discuss the open structure of glucose.
21. (a) Explain the synthesis of dipeptide by Bergmann process. (6)
(b) Describe the classification of proteins based on biological functions. (4)
22. Explain the causes and treatment of AIDS.
23. Explain the process of steam distillation with a neat diagram.
24. Explain the principle and applications of paper chromatography.

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