## 16UNDAT2CH2 UND/AT/2CH2

# B.Sc. DEGREE EXAMINATION, APRIL 2019 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. Draw the ring structure of glucose.
- 2. What is mutarotation?
- 3. What do you mean by a dipeptide?
- 4. Give two examples for globular proteins.
- 5. What is AIDS?
- 6. What are local anesthetics? Give an example
- 7. Name any two compounds which are purified by sublimation.
- 8. What do you mean by extraction?
- 9. What is  $R_f$  value?
- 10. Give any two examples for stationary phases used in column chromatography.
- 11. Name any two derivatives of cellulose.
- 12. What is Zwitter ion?

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

### Answer any **FIVE** questions

- 13. How will you convert glucose into fructose?
- 14. Write an elementary idea about RNA.
- 15. Give a brief account on the following i)Hypnotics ii) Transquilisers.
- 16. Discuss the principle of fractional distillation.
- 17. Write a brief account on the applications of paper chromatography.
- 18. What will happen when the following compounds are hydrolyzed.i)Starch ii)Cellulose
- 19. How is  $\alpha$  amino acid prepared by Strecker's method?

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

Answer any **THREE** questions

- 20. a) Establish the open structure of glucose. b) How does fructose reacts with con HNO<sub>3</sub> and Na/C<sub>2</sub>H<sub>5</sub>OH?
- 21. a) Discuss the Bergman method of dipeptide synthesis. b) How proteins are classified by its biological functions?
- 22. Enumerate the causes and treatment for cancer and diabetes.
- 23. Write a note on the following
  - i) Vaccum distillation (3)
  - ii) Crystallization (3)
  - iii) Steam distillation with diagram (4)
- 24. Discuss the principle and applications of the following
  - i) Column chromatography ii) TLC

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