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. Give an example for an ambidentate ligand.
2. Write the IUPAC name of $K_3[Fe(CN)_6]$.
3. Give an example for aldohexose.
4. What is mutarotation?
5. Name any four essential amino acids?
6. Give an example for globular protein.
7. Define a Galvanic cell.
8. What is buffer solution?
9. Define R_f value.
10. What is stationary phase?
11. Define peptide bond.
12. What is gun cotton?

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

Answer any **FIVE** questions

13. Give the postulates of Werner's theory.
14. How the open chain structure of glucose established?
15. How Proteins are classified by its composition?
16. With neat diagram, brief any one corrosion preventing method.
17. Write a short note on distillation.
18. Differentiate DNA and RNA.
19. Explain the experimental procedure for the estimation of Ni as Ni-DMG complex.

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

Answer any **THREE** questions

20. Explain the biological significances of haemoglobin and chlorophyll.
21. What are the causes of diabetes and how it can be controlled?
22. Discuss the primary and secondary structure of proteins.
23. Explain the determination of pH by electrometric method.
24. State the principle of TLC. How does it helps in separation process?

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