B.Sc. DEGREE EXAMINATION,NOVEMBER 2019
II Year IV Semester
Allied Chemistry - II

Time : 3 Hours **Max.marks :60**

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

Answer any **TEN** questions

1. Draw the structure of sucrose.
2. What are carbohydrates? How are they classified?
3. What is peptide linkage?
4. What is meant by denaturation of proteins?
5. Define – Tranquilisers.
6. What is Natural gas?
7. Write the composition of water gas.
8. State Grotthus – Draper law.
9. What is buffer solution?
10. Write any two industrial applications of buffer solutions.
11. What is quantum yield?
12. Define – Common ion effect.

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

Answer any **FIVE** questions

13. Explain the open chain structure of glucose.
14. Write notes on RNA.
15. Write the causes and treatment of diabetes.
16. Explain the preparation and uses of Urea.
17. Write the advantages of fuel gases.
18. What is photosensitization? Explain it with example.
19. Write note on Calomel electrode.

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

Answer any **THREE** questions

20. Describe the properties, structure and uses of starch.
21. Write the causes and treatment of Cancer and AIDS.
22. Explain the synthesis, properties and uses of silicones.
23. Discuss the buffer action in biological systems.
24. (a) Give the differences between strong and weak electrolytes (5)
    (b) Write the Henderson equation for acid and base. (3)
    (c) What is common ion effect? (2)

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