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. Draw the structure of sucrose.
2. Distinguish RNA and DNA.
3. What are sedatives?
4. Define the term "sedative".
5. Write the composition for producer gas.
6. How is triple super phosphate prepared?
7. State Grotthus-Draper's law.
8. Write an example for photochemical reaction.
9. Define pH.
10. What is SHE?
11. What are fuel gases?
12. What is peptide bond? Give an example

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

Answer any **FIVE** questions

13. Discuss the properties of glucose.
14. Write briefly about the cause and treatment of cancer.
15. What are silicones? How are they prepared? Mention their uses.
16. Write briefly about (a) quantum yield (b) chemiluminescence.
17. What are buffer solutions? Explain the principle behind buffer action.
18. Discuss the working of the Daniel cell.
19. Write briefly about the preparation and uses of urea.

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

Answer any **THREE** questions

20. a) write any two general methods of preparation and two properties of alpha amino acids. (5)
    b) Discuss the Classification of proteins based on physical Properties (5)
21. a) Define and give one example each for analgesics, antipyretics, tranquilizers, and anaesthetics. (4)
    b) Write briefly about the cause and treatment of AIDS. (6)
22. a) Write the preparation and any two uses of ammonium sulphate, superphosphate, and NPK fertilizers (6)
    b) Define: Natural gas, water gas, semi-water gas, and Carburetted water gas. (4)
23. Write short notes on Phosphorescence, Fluorescence
24. a) Explain briefly common ion effect. (4)
    b) Explain the construction and working of NHE. (6)

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