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

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

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

Answer any **TEN** questions

1. Give any one example for polysaccharides.
2. What are tranquilizers?
3. Give the composition of producer gas.
4. What are silicones?
5. What is quantum yield?
6. What are Galvanic cells?
7. Write the structure of fructose.
8. Give any two examples for neutral amino acids.
9. What are NPK fertilizers?
10. What is photochemistry?
11. What are strong electrolytes? Give any one example.
12. Mention any two uses of semi- water gas.

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

Answer any **FIVE** questions

13. Describe any one method of synthesis of peptides.
14. Write a short note on analgesics.
15. Explain the preparation and uses of superphosphate.
16. Describe the preparation of silicones.
17. How does phosphorescence occur?
18. Narrate any one buffer action occurs in biological systems.
19. What is EMF? How is it calculated?

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

Answer any **THREE** questions

20. How the open chain structure of fructose is elucidated?
21. State the preparation and properties of any two α- amino acids.
22. (i) Give the preparation of ammonium sulphate. (5)
    (ii) What is the composition of water gas? Give its uses. (5)
23. Explain the working of a normal hydrogen electrode.
24. Write a short note on (i) Chemiluminescence (ii) Photochemical reactions.

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