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 structure of DNA?
2. Give any two examples for anaesthetics.
3. State the role of urea as fertilizer.
4. What is natural gas?
5. Define standard electrode potential.
6. What is common ion effect? Give an example
7. Give an example for photochemical reaction.
8. Name any two causes of AIDS.
9. What are antipyretics?
10. Give any two uses of producer gas.
11. What is a reference electrode?
12. How ammonium sulphate is prepared?

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

Answer any **FIVE** questions

13. List out the salient features of structure of sucrose.
14. How amino acids are classified? Give example.
15. Explain the composition and uses of carburetted water gas and oil gas.
16. State the laws of photochemistry.
17. What are the causes of diabetes? How it can be treated?
18. Explain the determination of pH and pOH by Henderson equation.
19. Explain the preparation of triple super phosphate.

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

Answer any **THREE** questions

20. How the open chain structure of glucose is elucidated?
21. Explain the structure of RNA.
22. Explain the synthesis, properties and uses of silicones.
23. Write short note on (i) Photosensitization (ii) Fluorescence.
24. With neat diagram explain the mode of functioning of calomel electrode.

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