

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022
SEMESTER - II

20UPHAT2002 - Allied Chemistry- II

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Classify the Carbohydrates on the basis of their behaviour on hydrolysis.
2. Explain the role of NPK fertilizer in plant growth.
3. Give the classification of luminescence with examples.
4. What is meant by buffer solution? How is it prepared?
5. What is the difference between local and general anesthetics? Give examples.
6. How is water gas prepared? Give its uses.
7. Discuss the various photo physical processes with the help of Jablonski diagram.
8. Define common ion effect? How is it related to the solubility of the electrolyte?

Section B

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Discuss Proteins and its functions in detail.
10. What are the classifications of diabetes ? How are diabetes treated?
11. Differentiate silicones from silicates. Explain the Preparation and properties of silicone.
12. State and explain the Stark-Einstein's law of photochemical equivalence.
Add a note on its application to calculate the quantum yield of photochemical reactions.
13. Construct the galvanic cell and explain how do you determine the galvanic cell potential.
