

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 APRIL-2022

SEMESTER - II

20UPHAT2002 - Allied Chemistry - II

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Explain peptide synthesis.
2. What are anesthetics? Explain with examples the types of anesthetics.
3. What are Triple Super Phosphate and NPK fertiliser? Discuss their preparation and uses.
4. Define (a) Grotthus Draper's law (b) Stark Einstein's law
5. Derive Hendersons equation.
6. Differentiate RNA and DNA.
7. Explain the causes and treatment of cancer.
8. What is water gas and semi water gas? Explain its composition and uses.

Section B

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

9. Describe the open chain structure of glucose.
10. Discuss the causes and treatment of diabetes and AIDS.
11. Explain the synthesis and uses of silicones.
12. Write short notes on (i) Fluorescence (ii) Phosphorescence (iii) chemiluminescence (iv) photosensitization.
13. Describe NHE and Calomel electrode.
