

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.Physics - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - II

20UPHAT2002 - Allied Chemistry - II

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Classify Carbohydrates.
2. Predict the composition of Natural gas, water gas and producer gas.
3. Outline Phosphorescence and Fluorescence.
4. Discuss the buffer action in biological systems.
5. Define antipyretics and tranquilisers.
6. Prepare the following (i) urea (ii) triple superphosphate
7. State Grotthus-Draper's law and Stark-Einstein's law of photochemical equivalence.
8. Justify common ion effect.

Section C

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

9. Enumerate the properties of alpha amino acids.
10. Analyse the Cause and treatment of Diabetes and Cancer.
11. Design the Synthesis, properties and uses of silicones.
12. Differentiate Chemi luminescence and Photosensitization.
13. Construct and explain the working of NHE and Calomel electrode.
