

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 - IV

20UPBAT4004 - Allied chemistry -II

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Describe the Bergmann synthesis for dipeptides.
2. Explain the causes and treatment for diabetes
3. Discuss the preparation and uses of triple phosphate.
4. Explain the various laws of photochemistry.
5. Explain the construction and working of a calomel electrode.
6. Give the composition and uses of carburetted water gas.
7. Explain chemiluminescence.
8. Discuss the elementary ideas about DNA and RNA.

Section B

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

9. Explain the open chain structure of glucose with the reactions.
10. Write in detail about (i) Analgesics (ii) General anesthetics
11. Describe the synthesis, properties and uses of silicones.
12. Explain (i) Phosphorescence (ii) Fluorescence
13. Derive Henderson equation and explain the buffer action in biological system.
