

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.PBPBT - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - III

22UPBAT3003 - Chemistry for PBPBT I

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

- Describe the following purification techniques
a) Steam distillation b) fractional distillation
- Sketch and discuss the structure of Haemoglobin.
- Explain the structure of NaCl.
- Compare and contrast Primary and secondary standard solutions.
- Illustrate the types of acid base titrations.
- Distinguish DNA and RNA.
- What are purine and pyrimidine bases? Explain with example.
- Define the following terms
a) Zwitter ions b) isoelectric point C) peptide linkage

Section C

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

- Explain Thin layer Chromatography technique in detail.
- Examine the hybridisation in methane ethylene and acetylene.
- Interpret Henderson-Hasselbalch equation and write its significance.
- Write the classifications of carbohydrate and justify the open chain structure of glucose.
- Evaluate the primary and secondary structure, of proteins.
