

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 - APRIL 2025

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)

1. Explain in detail about working principle and application of paper chromatography.
2. Describe in detail the types of indicators and its uses.
3. Classify the DNA replication and its types.
4. Explain in detail about structure and function of proteins.
5. Described in detail about Ionic bond and Covalent bond.
6. Write on the principle and preparation of buffer solution.
7. Explain in brief about the structure and function of RNA and its types.
8. Determine in detail about working principle and application of Isoelectric point with neat diagram.

Section C

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

9. Explain the principle of distillation including the key steps involved in separating components of a liquid mixture based on their boiling points.
10. Classify the structure and function of haemoglobin.
11. Determine the Handerson- Hasselbalch equation and its significance.
12. Distinguished the stages of transcription in enzymatically catalysed.
13. Determine in detail about the organise of the general structure and properties of aminoacids.
