

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 NOVEMBER -2023

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. Indicate the way to handle the acids, ethers, toxic and poisonous chemicals.
2. Explain the principle of fractional distillation with a neat diagram.
3. Predict the Structure of NaCl and explain.
4. Explain the hybridization of a methane molecule.
5. Describe common ion effect with an example.
6. What are primary and secondary standards? Explain.
7. Explain chain structure of glucose and fructose.
8. Examine the classification of Amino acids.

Section C

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

9. Explain the types of error and describe the methods of eliminating and minimizing errors.
10. Explain the structure and function of hemoglobin.
11. Derive the Henderson-Hasselbalch equation and buffer action in biological systems.
12. Explain the following:
(a) Replication of DNA (b) Inversion of Cane Sugar. (6+4)
13. Examine the Primary and Secondary Structure of Proteins.
