

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 - 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)

1. Show with suitable examples about the care to be taken in handling acids and toxic chemicals.
2. Sketch and explain the geometry of ethylene molecule.
3. Define Molarity, Molality and Normality.
4. Differentiate DNA and RNA.
5. Briefly explain the tests for proteins.
6. How peptide linkage is formed?
7. Explain fractional distillation.
8. Write Henderson-Hasselbalch equation and its significance.

Section C

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

9. Explain in detail about different types of errors and how to eliminate or minimize the errors.
10. a. Classify different types of bonds.
b. Sketch the structure of haemoglobin and explain its functions.
11. Discuss the principle, preparation and uses of buffer solutions.
12. Explain the open chain structure of glucose with reactions supporting it.
13. a. How are amino acids classified?
b. Explain the secondary structure proteins.
