

Roll.No.

24PPBCT3006

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.

M.Sc. PBPBT - END SEMESTER EXAMINATIONS - NOVEMBER 2025

SEMESTER - III

24PPBCT3006 - Cell and Molecular Biology

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. State the role of endoplasmic reticulum.
2. Describe the structure of Lamp brush Chromosome and explain the role of each part.
3. Classify the types of DNA.
4. Explain about restriction enzymes.
5. Define 'telomere'.
6. Relate the different types of hydrophobic reactions.
7. Illustrate the importance of split gene.
8. Differentiate phage and cosmid vectors

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Explain about cell wall.
10. Relate mitosis and meiosis with suitable examples.
11. Ascertain the importance of molecular biology.
12. Criticize the role of gene concept.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Differentiate the types of restriction enzyme and cloning.
