

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

**20UPBCT3005 - Cell Biology and Molecular Biology**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

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

1. Interpret the functions of cell wall.
2. Describe the structure of peroxisomes .
3. Illustrate lac Operon with a diagram.
4. Differentiate plasmids and cosmids .
5. Sketch the structure of Endoplasmic reticulum .
6. Predict about microtubules .
7. Explain about feedback inhibition.
8. Evaluate the applications of restriction enzymes .

### Section C

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

9. Explain the ultra structure of cell wall.
10. Classify the types of plasmid.
11. Examine the non-living cell inclusions.
12. Elaborate tryp-Operon with a neat diagram.
13. Evaluate PCR with illustrations.

\*\*\*\*\*