

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-2023

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. Describe the ultra structure of cell wall.
2. Illustrate and explain the structure of Endoplasmic reticulum.
3. Explain the working of PCR.
4. Describe the regulation in feed back inhibition.
5. What are ribosomes? State the different types and its functions.
6. Relate how lac operon functions in glucose and lactose mediums.
7. Explain Microtubules with structure and functions.
8. Discuss the various techniques in gene manipulation.

Section C

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

9. Explain Eukaryotic cell organisation.
10. Give a detailed account of the structure and functions of chloroplast.
11. Describe the various types of microbodies.
12. Explain gene regulation seen in Tryp-operon.
13. Write about recombinant DNA technology and evaluate its advantages and disadvantages in the current scenario.
