

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 APRIL - 2024

SEMESTER - II

20PPBCT2005 - Cell Biology

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Explain the working of Sodium-Potassium pump.
2. Describe the structure of Nucleus.
3. Classify the cell divisions based on their function.
4. Describe the fine structure of chromosome.
5. Elucidate the function of dictyosomes in an eukaryotic cell.
6. Predict the need of chloroplast in a plant cell.
7. Show the importance of prophase I of meiosis.
8. Distinguish inversion from translocation.

Section C

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

9. Describe the fluid mosaic model of plasma membrane.
10. Classify the intracellular organelles based on membrane.
11. Distinguish mitochondria and chloroplast based on their structure.
12. Give an account on Meiosis.

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

13. Distinguish various banding techniques.
