

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 - NOV' 2024

SEMESTER - II

20PPBET2003 - Molecular Biology and Genetics Engineering

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Describe the type of DNA.
2. Explain the split gene.
3. Apply the techniques uses for restriction enzymes for cloning.
4. Describe the artificial chromosome vector.
5. Explain the basic principles of PCR.
6. Evaluate the C DNA libraries.
7. Explain the shuttle vector.
8. Justify the techniques uses for DNA finger printing.

Section C

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

9. Explain briefly about the structure of RNA.
10. Differentiate between the transcription in Prokaryotic and Eukaryotic.
11. Criticize the recombinant DNA technology have been studied.
12. Justify the types of vector.

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

13. Explain the southern bloating techniques and its applications.
