

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 - III

20PPBCT3006 - Genetics, Plant Breeding and evolution

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Give a brief account on mendelian principles.
2. Write about the Regulation of gene action in Prokaryotes.
3. What are the causes of mutation?
4. Discuss the methods of crop improvement.
5. Write notes on De Vries theory of mutation.
6. Briefly discuss two theories of chiasma formation.
7. Explain polygenic inheritance.
8. Comment on Lamarckism.

Section C

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

9. Give a detail account on sex linkage and sex influenced characters.
10. Describe the Britten and Davidson model of gene regulation.
11. Explain the improved seed production and seedtesting techniques.
12. Discuss Darwin theory in evolution.

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

13. Give an elaborate account on modern synthetic theory.
