

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. END SEMESTER EXAMINATION APRIL/NOV - 2021

SEMESTER - III

20PPBCT3006 - Genetics, Plant Breeding and Evolution

Total Duration : 3 Hrs		Total Marks : 75	
MCQ	: 30 Mins	MCQ	: 15
Descriptive	: 2 Hrs.30 Mins	Descriptive	: 60

Section B

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

1. Give detail information about Mendelian and Non Mendelian inheritance.
2. Explain dominant and recessive sex linked genes.
3. Explain Regulation of gene action in Prokaryotes.
4. Give detail information about Lac Operon.
5. Explain about Mutagens and give suitable example.
6. What is green revolution?
7. Explain Polyploidy in Plant Breeding.
8. Discusses Modern synthetic theory.

Section C

Part A

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

9. Write an essay on Sex linked diseases and examples.
10. Prokaryotic and Eukaryotic gene organizations – explain
11. Explain Types of Mutation and its Functions.
12. Give details in Principles involved in Plant Breeding and its importance for cash crops.

Part B

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

13. What are the Methods for crop improvement?