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B.M.S COLLEGE FOR WOMEN

BENGALURU – 560004

V SEMESTER END EXAMINATION – JAN/FEB-2024

B.Sc.- BOTANY

GENETICS AND PLANT BREEDING

Course Code: BOT5DSC06

Duration: 2 ½ Hours

QP Code: 5031

Max marks: 60

Instructions: 1. Answer all the sections.

2. Draw diagrams wherever necessary.

SECTION-A

I. Answer any FIVE of the following. Each question carries TWO marks. (5x2=10)

1. What is Cytoplasmic inheritance? Give example
2. What is Back cross?
3. Define Hardy-Weinberg law
4. What is Cistron?
5. What is Adventive embryony?
6. What is Heterosis?
7. Monogenic inheritance?

SECTION-B

II. Answer any FOUR of the following. Each question carries FIVE marks. (4x5=20)

8. Explain law of segregation with an example
9. Co-dominance
10. Give a brief account of fine structure of genes
11. Write any 2 theories of crossing over

12. Write a note on plant genetic resources – Acclimatization

13. Inbreeding depression

SECTION-C

III. Answer any THREE of the following. Each question carries TEN marks. (3x10=30)

14. Complementary gene interactions.

15. Describe the variations in chromosome number.

16. Modes of reproduction in crop plants.

17. Role of Biotechnology in crop improvement.

18. a) Selection methods for self – pollinating crops.

b) Quantitative inheritance.



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