B.Sc. DEGREE EXAMINATION,NOVEMBER 2018
III Year V Semester
Core Major Paper-IX
GENETICS AND PLANT BREEDING

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Test cross.
2. Back cross.
3. Heamophilia.
4. Hypertrichosis.
5. Multiple alleles.
6. DNA probe.
7. Euploidy.
8. Klinefelters syndrome.
9. Population genetics.
10. DNA finger printing.
11. Hardy Weinberg principle.
12. Germplasm storage.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Write short notes on non allelic interaction.
14. Explain the different types of sex determination in plants.
15. Comment on chromosome theory of inheritance.
16. Describe about the gene therapy with an example.
17. Define male sterility with an example.
18. Explain polyploidy breeding and its application.
19. Describe briefly about Mutation breeding.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Comment on Polygenic inheritance and Pseudoalleles.
21. Write an essay on Cytoplasmic Inheritance.
22. Write an essay on Linkage and crossing over.
23. Comment on heterosis and hybrid seed production.
24. Write an essay on mass and pure line selection.

B.Sc. DEGREE EXAMINATION,NOVEMBER 2018
III Year V Semester
Core Major Paper-IX
GENETICS AND PLANT BREEDING

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Test cross.
2. Back cross.
3. Heamophilia.
4. Hypertrichosis.
5. Multiple alleles.
6. DNA probe.
7. Euploidy.
8. Klinefelters syndrome.
9. Population genetics.
10. DNA finger printing.
11. Hardy Weinberg principle.
12. Germplasm storage.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Write short notes on non allelic interaction.
14. Explain the different types of sex determination in plants.
15. Comment on chromosome theory of inheritance.
16. Describe about the gene therapy with an example.
17. Define male sterility with an example.
18. Explain polyploidy breeding and its application.
19. Describe briefly about Mutation breeding.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Comment on Polygenic inheritance and Pseudoalleles.
21. Write an essay on Cytoplasmic Inheritance.
22. Write an essay on Linkage and crossing over.
23. Comment on heterosis and hybrid seed production.
24. Write an essay on mass and pure line selection.