

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

Time : 3 Hours

Max.marks :60

Section A ($10 \times 1 = 10$) Marks

Answer any **TEN** questions

1. Test cross
2. Gregor Johann Mendel
3. Hypertrichosis
4. Colour Blindness
5. Crossing over
6. Multiple alleles
7. Germplasm storage
8. Genetic drift
9. Mean
10. Mode
11. DNA probe
12. Aneuploidy

Section B ($5 \times 4 = 20$) Marks

Answer any **FIVE** questions

13. Difference between monohybrid and dihybrid cross.
14. Explain plasmid inheritance in *Mirabilis*.
15. Explain the types of mutation.
- 16.
- 17.
18. Comment on gene interactions.
- 19.

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

Answer any **THREE** questions

20. Write a detailed account on polygenic inheritance.
21. Explain the mechanisms of sex determination in plants.
22. Write an essay on causes, symptoms and treatment of Klinefelter's and Down's syndrome.
- 23.
- 24.

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