B.Sc DEGREE EXAMINATION,APRIL 2019
III Year V Semester
Genetics and Biostatistics

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

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

Answer any **TEN** questions

1. Pseudoalleles
2. Gene
3. Hypertrichosis
4. Allosome
5. Mutagen
6. Multiple alleles
7. DNA probe
8. Genomic library
9. Mean deviation
10. Standard Deviation
11. Aneuploidy
12. Polygenic inheritance

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

Answer any **FIVE** questions

13. Significance of Test cross and Back cross.
14. Colour blindness is a sex-linked inheritance-Justify.
15. Explain the chromosome theory on inheritance.
16. Comment on the germplasm storage.
17. How to find central tendency for quantitative variable?
18. Explain Hardy-Weinberg principle.
19. Comment on mutagenic agents and its significance.

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

Answer any **THREE** questions

20. Explain in detail the Monohybrid and Dihybrid crosses.

21. Write an account on cytoplasmic inheritance and extra-nuclear inheritance with examples.

22. What is genetic syndrome? Comment on the Down's syndrome and Turner's syndrome.

23. Explain the DNA finger printing.

24. Elaborate Chi-square test.

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