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VI Semester B.Sc. Examination, September/October 2022
(CBCS Scheme)

GENETICS (Paper – VII)

GNT 602 : Applied and Behavioural Genetics

Time : 3 Hours

Max. Marks : 70

Instruction : Draw diagrams *wherever* necessary.

PART – A

I. Answer **any 5** of the following :

(5×3=15)

- 1) Abbreviate FASTA, BLAST and RAPD.
- 2) What are Interferons ? Give two examples.
- 3) What is Ex-situ conservation ?
- 4) State the Law of Parallelism.
- 5) Define Genetic erosion.
- 6) Define Inbreeding depression.
- 7) Mention any two hybridization techniques with two examples each.



PART – B

II. Answer **any 5** of the following :

(5×5=25)

- 1) Explain the preparation of Monoclonal Antibodies.
- 2) Write an account on the production of Recombinant Insulin.
- 3) Write a note on the mating behaviour of Drosophila.
- 4) Give an account on IBPGR and its activities.
- 5) Explain the Cryopreservation method.
- 6) What is Dominance and Over dominance ? Explain.
- 7) List the breeding strategies for improvement of poultry – Giriraja.

PART – C

III. Answer **any 3** of the following :

(3×10=30)

- 1) Write a note on RAPD and RFLD.
- 2) Explain FASTA and BLAST.
- 3) Write an account on the hygienic behaviour in honeybees and nesting behaviour in Ants.
- 4) Explain the germplasm classification in detail.
- 5) Explain Artificial Insemination in cattle.