



PART - C

III. Answer **any two** of the following.

(2×10=20)

- 1) Explain the methodology of DNA finger printing technique.
- 2) Give an account on gene bank and cryopreservation.
- 3) Explain the estimation of heterosis.
- 4) Write a note on :
 - a) Genetic mental ability in twins.
 - b) Crossing of inbreed lines.

PART - D

IV. Answer **any one** of the following.

(1×10=10)

- 1) Give an account on germplasm and its classification.
- 2) Explain :
 - a) Human growth hormone.
 - b) Genetic concept of over dominance.



VI Semester B.Sc. Examination, September 2020
(Fresh+Repeaters) (CBCS) (2016-17 and Onwards)

GENETICS – VIII

GNT – 602 : Applied and Behaviour Genetics

Time : 3 Hours

Max. Marks : 70

Instruction : Draw diagrams wherever necessary.

PART – A

I. Answer **any five** of the following.

(5×3=15)

- 1) What are molecular markers ?
- 2) Expand W.W.W. Mention any two websites used in bioinformatics.
- 3) What are vaccines ?
- 4) Write a note on germplasm.
- 5) Define the law of parallelism.
- 6) What is territoriality in behaviour genetics ?
- 7) What is inbreeding depression ?

PART – B

II. Answer **any five** of the following.

(5×5=25)

- 1) Explain the role of IBPGR organization in germplasm conservation.
- 2) Write a note on the role of internet usage with reference to bioinformatics.
- 3) Give an account on RFLP-molecular marker in DNA finger printing.
- 4) Write a note on diagnostic kit used for syphilis.
- 5) Give an account on heterosis and its characteristics.
- 6) Explain the various methods involved in animal breeding.
- 7) Mention the various steps involved in hybridization techniques.

P.T.O.