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GS-368

VI Semester B.Sc. Examination, May/June 2019

GENETICS - VIII

GNT-602 : Applied and Behaviour Genetics

(Fresh+Repeaters) (CBCS-2016-17 & Onwards)

Time : 3 Hours

Max. Marks : 70

Instructions : Draw diagrams wherever necessary.

PART - A

- I. Answer **any five** of the following. **5x3=15**
1. What are Monoclonal antibodies ?
 2. Write a note on SNPs.
 3. What are DNA probes ?
 4. What is Gene bank ?
 5. What is Genetic Erosion ?
 6. Write a note on Heterosis.
 7. What is inbreeding in animals ?

PART - B

- II. Answer **any five** of the following. **5x5=25**
1. Explain the role of Microsatellite molecular marker in DNA fingerprinting.
 2. Write a note on the Diagnostic kit used for Typhoid.
 3. Give an account on the centers of Diversity.
 4. Explain the role of NBPGR organization in germplasm conservation.
 5. Explain the role of Bioinformatics in Genome analysis.
 6. Describe Gynogenesis in fish breeding.
 7. Give an account on hybrid vigor exploitation in Rice.

P.T.O.

**PART - C****III.** Answer **any two** of the following.**2x10=20**

1. Explain the production of recombinant Insulin.
2. Describe mating behaviour and acoustic signals in *Drosophila*.
3. Give an account on hybridization techniques in plants.
4. Describe :
 - (a) Hygienic behaviour in Honeybees
 - (b) Gene sanctuaries

PART - D**IV.** Answer **any one** of the following.**1x10=10**

1. Give an account on breeding strategies for the improvement of livestock.
2. Explain :
 - (a) Methodology of DNA finger printing
 - (b) Cryopreservation

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