61637

Sixth Semester B.Sc. Degree Examination, September/October 2021

(CBCS Scheme – 2018 onwards)

Genetics

Paper VII – GNT 601 – DEVELOPMENTAL AND EVOLUTIONARY GENETICS

Time : 3 Hours] *[Max. Marks : 70*

Instructions to Candidates : Draw diagrams wherever necessary.

PART – A

I. Answer any **FIVE** of the following : **(5 × 3 = 15)**

1. Define Cleavage.
2. What is the role of pair rule genes in development?
3. What are the features of blastula?
4. Define fitness.
5. Explain gene pool.
6. Expand ANOVA. Add a note on its uses.
7. Define additive variance.

PART – B

II. Answer any **FIVE** of the following : **(5 × 5 = 25)**

8. Explain nuclear transplantation in the development of Amphibians.
9. Give a note on Zygotic genes.
10. Write a note on Speciation.
11. Explain transgressive inheritance in poultry.

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