

Roll No.....

B

**3021**

**M.Sc. (Semester I) EXAMINATION, 2018**

**ZOOLOGY**

**Third Paper**

(Genetics and Evolution)

Time allowed : Three hours

Maximum marks : 50

*Note : Syllabus of each paper is divided into three units. The question paper is divided into three parts: Part-A, Part-B and Part-C.*

*Part-A(10 marks) : Part-A is compulsory and contains 10 questions. At least three questions will be set from each unit and each question carries 1 mark (50 words each).*

*Part-B (10 marks) : Part-B is compulsory and contains five questions, taking at least one question from each*

*unit. Candidate is required to attempt all 5 questions. Each question carries 2 marks (100 words each).*

*Part-C (30 marks) : 6 questions will be set taking 2 from each unit. Candidate is required to attempt 3 questions, taking 1 from each unit. Each question carries 10 marks. (400 words each).*

Part-A (Compulsory)

1. Name the Scientist who discovered Genetic Code. ✓
2. Define progeny wild type symbolism. ✓
3. Write Dominant Epistatic ratio. ✓
4. Define Extragenic mutation suppressor. ✓
5. The term Eugenic was given by ?
6. Explain modern synthetic theory.
7. Define molecular clock.
8. Name the plasmids found in Bacteria.

## Unit-II

17. Write on origin of Eukaryotic cell.

Or

Describe the stages in primate evolution.

## Unit-III

18. Explain pattern of change in protein and nucleotide sequence analysis sequence.

Or

~~Describe failure of isolating mechanism.~~