

Roll No.

(07/21-II)

13692

M. Sc. EXAMINATION

(For Batch 2017 & Onwards)

(Second Semester)

ZOOLOGY

ZOO-202

Evolutionary Biology

Time : Three Hours

Maximum Marks : 70

Note : Q. No. 1 is compulsory. Attempt *four* more questions selecting *one* question from each Unit.

1. Write short notes on the following : $2 \times 5 = 10$

- (a) Evolution
- (b) Mutation
- (c) Monomers
- (d) Molecular Clocks
- (e) Nucleotide Sequence.

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P.T.O.

Unit I

2. What is Darwinism ? Describe in detail the Darwin theory. 15
3. Describe the Mendel's genetic discoveries in detail. 15

Unit II

4. Write a detailed note on evolution of eukaryotic cells. 15
5. What is Haldane concept and how it is different than Oparin ? 15

Unit III

6. What is evolutionary time scale ? Describe different Eras and Periods. 15
7. Describe different stages of primate evolution. 15

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Unit IV

8. What is Phylogeny ? Write different types of molecular tools used in phylogenetic analysis. 15
9. How are the genes and proteins originated ? Describe. 15

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