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SF-17012

(553) M.Sc. Zoology (Third Semester) Examination, Dec.-2023

Compulsory /Optional

POPULATION GENETICS & EVOLUTION

Paper - IV

Time : Three Hours] *[Maximum Marks : 080*

Note : Answer From both the Section as Directed. The figures in the right-hand margin indicate marks.

Section- A

1. Answer the following very short not type questions: 1×10=10

(a) Mutatation by radiation was first experimentally demonstrated by ...

(b) Species diversification represents ...

(c) First man originated in ..... age.

(d) Genetic improvement of human race is called ....

(e) What is Analogous organ?

(f) The Term gene was given by ....

(g) What is vestiginal organ?

(h) Allopatric species are .....

(i) What is genetic drift?

(j) Give example of any two Migratory bird?

2. Answer the following questions: 2×5=10

(a) Write two mendel's Low?

(b) Explain Metapopulation?

(c) Define Nucleotide?

(d) What is parapatric speciation?

(e) What is gene Mutation?

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Section- B

Answer the following questions: 15×4=60

3. Explain Hardy-Weinberg Low of genetic equilibrium?

OR

Write short notes on :

(a) Meiotic drive

(b) Mutation

4. What is Isolation, Explain pattern and mechanisms of reproductive Isolation?

OR

Write short notes on :

(a) Inbreeding depression.

(b) Difference between Allopatric and sympatric.

5. What is phylogenetic trees and explain How to construct phylogenetic trees?

OR

Write short notes on :

(a) Molecular clock.

(b) Gene evolution.

6. Short notes on :

(a) Phenotypic variation.

(b) Metapopulation.

OR

Explain Genetic structures of Natural population?

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