

**SUBJECT CODE NO:B- 2085**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. T.Y (Sem-VI)**  
**Examination November/December-2022**  
**Zoology Paper- XIX (601)**  
**(Evolution)**

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

- N.B
- i. Attempt all questions
  - ii. Illustrate your answer with Suitable Labelled diagram.
- Q. 1 Define Organic evolution. Explain Embryo - Logical evidences of Organic evolution 20
- OR
- Explain Natural selection theory and artificial selection theory.
- Q. 2 what is species? Describe morphological genetical and Biological concept of species. 20
- OR
- Write short notes on any four of the following
- a) Catastrophism
  - b) Isolation
  - c) Sequential evolution
  - d) Salient feature of microevolution,
  - e) Allopatric speciation
  - f) Fossil formation
- Q. 3 Select and write Correct answer from the given alternatives in Each sub- question. 10
- 1) Mammoth are the ancestors of \_\_\_\_\_
    - a) Camel
    - b) Elephant
    - c) giraffe
    - d) All of the above.
  - 2) Genetic drift operates only in
    - a) Island population
    - b) Large population
    - c) Smaller population
    - d) Mendelian population
  - 3) Struggle for existence between the members of the different species is called as \_\_\_\_\_
    - a) Homogenetic
    - b) Interspecific
    - c) Heterospecific
    - d) Intraspecific

- 4) Material selection acts directly on
  - a) Phenotypes
  - b) Mutations
  - c) Alleles
  - d) genes
  
- 5) Organic evolution theory of Lamarck is known as \_\_\_\_\_
  - a) continuity of germplasm
  - b) Natural selection
  - c) Inheritance of acquired character
  - d) Artificial selection.
  
- 6) Crane is a population remains stable unless and until there is \_\_\_\_\_
  - a) Random drift
  - b) Mutation
  - c) Random Mating
  - d) Selection
  
- 7) Evolution is \_\_\_\_\_
  - a) Development of race allen
  - b) Progressive development of race
  - c) Race along with variation
  - d) History of race.
  
- 8) Evolution of horse family equidae is classical Example of \_\_\_\_\_
  - a) Micro and Mega evolution
  - b) Micro evolution
  - c) Retrogressive progress
  - d) Variation
  
- 9) Vestigial Organ in man —
  - a) Nictitating appendix
  - b) Coccus
  - c) vermiform appendix
  - d) All of the above.
  
- 10) Which one of the following is living fossil \_\_\_\_\_
  - a) Moss
  - b) spirogyra
  - c) Saccharomyces
  - d) cycas