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SUBJECT CODE NO: - S-6018
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem-III) Zoology (Old)
Examination May / June - 2023
Evolution & Animal Behavior- 501

[Time: 3:00 Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N. B

- 1) All questions carry equal marks
- 2) Draw a well labelled diagram whenever necessary

Part –A

Q1 Attempt the following multiple – choice questions

20

- 1) Most famous and important theory of Darwinism is ----
 a) Initial theory b) Natural theory c) Extinction d) Adaptation
- 2) When it comes to environment a species may face one or more ----
 a) Selective pressure b) selective density c) optimal point d) optimization
- 3) During origin of life, which among the following was not found in free form?
 a) Methane b) Ammonia c) oxygen d) Hydrogen
- 4) Primates originated during which era?
 a) Mesozoic b) cenozoic c) paleozoic d) Azoic
- 5) Migration of birds take place because -----
 a) They like to travel b) to find abundant food
 c) to meet other birds d) none of these
- 6) The directed movement of birds is called -----
 a) Displacement b) Movement c) Migration d) Navigation
- 7) Man belongs to the super family ----
 a) Homidae b) Hominoidea c) primates d) Mammalia
- 8) The intraspecific struggle is ----
 a) Different species b) within species c) Heat d) environmental factor

- 9) Which theory attempts to explain to us the origin of universe?
a) Explosion theory b) Big-Bang theory
c) Black hole theory d) Gamma theory
- 10) The water soluble photosynthetic pigment is-----
a) Chlorophyll-a b) xanthophyll c) Anthocyanin d) chlo.b

Part –B

Attempt any five

- Q2 Describe the Navigation and orientation in birds 12
- Q3 What are the major events in the evolutionary time scale 12
- Q4 Write in detail Miller-experiment 12
- Q5 Describe the sexual selection in animals 12
- Q6 Give an account on origin of new genes and proteins 12
- Q7 Explain the Hardy-Weinberg law 12
- Q8 Describe in detail the types of speciation 12