Total No. of Printed Pages: 02

SUBJECT CODE NO:- 6018
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. S.Y (Sem-III)
Examination March/April-2022 (To Be Held In June/July-2022)
Zoology
Evaluation & Animal Behavior- 501

[Time: 3.45 Hours] **[Max. Marks: 80]**

Please check whether you have got the right question paper.

N.B
1. Part 'A' is compulsory.
2. Attempt any five question from Part 'B'
3. Draw a neat labeled diagram wherever necessary.

Part A

Q.1 Attempt the following multiple choice questions. 20

1) Theory of use and disuse of evolution was given by ----------.
   a. Darwin b. Weismann
   c. Hugo de- varies d. Lamarck

2) Discontinuous variation are ----------.
   a. Aquaried character b. Essential factors
   c. Mutation d. Non-essential factor

3) Which field is zoology and geology are closed connected ----------.
   a. Paleontology b. Archieology
   c. Zoo- geography d. Morphology

4) Life originated in which era ----------.
   a. Proterozoic b. Mesozoic
   c. Precambrian d. coenzoic

5) The probable direct ancestor of modern man is ----------.
   a. Java man b. Peking man
   c. Cro-Magnon man d. Neanderthal man

6) Which of following assumption support the Hardy – Weinberg equilibrium ----------.
   a. Presence of Natural selection b. Random mating selection
   c. Genetic drift d. Assertive mating

7) Reappearance ancestor character is called----------.
   a. Analogy b. Homology
   c. Atavism d. None of these

8) A lineage splitting evolutionary processes that produce two or more species known as -------

a. Variation
b. Speciation
c. Evolution
d. Selection

9) Study of the behavior of animal called as ----------.
a. Genetics
b. Ethology
c. Ecology
d. Ethnology

10) Lunar cycle, circadial rhythm and biological clock in animal are example of ----------.
a. Innate behavior
b. Learned behaviour
c. Both of them
d. None

Part B

Attempt any five questions

Q.2	Describe in detail characteristic of Lamarckism.	12
Q.3	Give an account of modern evolutionary synthesis.	12
Q.4	Explain in detail Miller experiment (1953)	12
Q.5	Write in detail geological time scale.	12
Q.6	Explain in detail concept of speciation.	12
Q. 7	Discuss in Mechanism of gene pool and gene frequency.	12
Q. 8	Explain the development of behaviour.	12