

G-3/344/21

Roll No.....

M.Sc. III Semester Examination, April-2021

ZOOLOGY

Paper II

(Animal Behaviour and Population Ecology)

Time : 3 Hours]

[Maximum Marks : 80

Note : *All questions are compulsory. Question Paper comprises of 3 sections. **Section A** is objective type/Multiple Choice questions with no internal choice. **Section B** is short answer type with internal choice. **Section C** is long answer type with internal choice.*

SECTION 'A'

(Objective Type Questions)

Choose the correct answer :

1 × 8 = 8

1. Some behaviour patterns appear only after the specific developmental stage or time. This stage or time is called :
(a) Imprinting (b) Maturation
(c) Learning (d) Instinct
2. Habituation and Imprinting illustrate that behaviours are made up of what ?
(a) both innate and learned components
(b) simple responses to complex stimuli
(c) unchanging response to preset stimuli
(d) reversible stimulus response learning
3. A stimulus that triggers innate behaviour is called :
(a) Releaser (b) Triggers
(c) Signal (d) Instinct

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4. The daily cycle of activity that occurs over a 24-hours period of time is called a :
 (a) Taxis-behaviour (b) Kinesis behaviour
 (c) Stimulus response (d) Circadian rhythm
5. Animals move from a less desirable location to more desirable location by means of :
 (a) Kinesis and taxis (b) Circadian rhythm
 (c) Courtship displays (d) Biological clock
6. The interaction to which an individual gives up or sacrifices some of its own reproductive potential to benefit another individual is called :
 (a) Parental care (b) Altruism
 (c) Maturation (d) Selfishness
7. The site defend by territorial animal by agonistic behaviour is :
 (a) Hierarchy (b) Altruism
 (c) Agnostic (d) Territory
8. The decrease in response to repeated or continuous stimulation is called :
 (a) Instinct (b) Maturation
 (c) Habituation (d) Imprinting

SECTION 'B'

6 × 4 = 24

(Short Answer Type Questions)

Note : Answer the following questions in 250 words.

1. What is biological rhythm ?

Or

Explain the Instrumental learning.

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2. Explain migration in birds in brief.
 Or
 Parental care in amphibia. Explain it.
3. Explain logistic population growth.
 Or
 What is r and K selection ?
4. How is pollination an example of Mutualism.
 Or
 Explain in brief population distribution.

SECTION 'C'

12 × 4 = 48

(Long Answer Type Questions)

Note : Answer the following questions in 500 words.

1. Explain the classical and insight learning.
 Or
 Explain the Neural mechanism of learning.
2. Explain the orientation.
 Or
 Social organization of Honey bee.
3. Explain the r and K selection.
 Or
 Explain the Demography life table in brief.
4. Explain the plant pollination is example of mutualism.
 Or
 Explain the population regulation.

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