

2016

ZOOLOGY

( Major )

Paper : 6.1

( **Animal Behaviour** )

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

1. Answer the following questions as directed :

1×7=7

(a) Ethoendocrinology deals with the relations between hormones and \_\_\_\_\_.  
( Fill in the blank )

(b) Imprinting is restricted to \_\_\_\_\_ age.  
( Fill in the blank )

(c) The term 'ethology' was introduced by \_\_\_\_\_.  
( Fill in the blank )

(d) The full form of FAP is \_\_\_\_\_.  
( Fill in the blank )

(e) Among primates, territorial monogamy is found in gorilla/gibbon/baboon.

( Choose the correct answer )

(f) Emotional and physical stresses are managed by hormones produced from pituitary/gonad/adrenal.

( Choose the correct answer )

(g) Organisms which have better insight and memory are primates/insects/birds.

( Choose the correct answer )

2. Give short answers to the following :  $2 \times 4 = 8$

(a) Why is it necessary to study animal behaviour?

(b) Define 'habituation learning' with a suitable example.

(c) Write correlation between sign stimulus and innate releasing mechanism.

(d) State different castes of ants that live in a colony.

3. Answer any *three* from the following questions :  $5 \times 3 = 15$

(a) Write a note on the advantages of territoriality in wild animals. 5

(b) Explain with an example the multiple gene effect on behaviour. 5

(c) What is reflex action? Discuss conditioned reflex with a suitable example. 1+4=5

(d) What do you mean by biological communication? Discuss visual and acoustic means of communication. 1+4=5

(e) Write briefly on homing behaviour in animals with examples. 5

4. Discuss the difference between instinctive behaviour and learned behaviour with suitable examples. Write the usefulness of 'latent' learning. 8+2=10

Or

What are the main components of aggressive behaviour? Write the factors responsible for aggressive behaviour in animals. 4+6=10

5. Write briefly the effect of hormones on the behaviour of an animal. 10

Or

What is pheromone? Describe the role of pheromones in the life of an insect. 2+8=10

6. What is circadian rhythm? Discuss the effects of external stimuli on circadian rhythm of an animal. 2+8=10

Or

“Honeybee is a social insect.” Justify the statement. 10

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