

(4)

3 (Sem-6) ZOO M 1

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

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)

(2)

- (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

(3)

- (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. $2+8=10$