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ZOOLOGY ZOOLOGY

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Theory Paper: M-6.1

Full Marks – 60

Time – Three hours

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

1. Answer the following questions as directed: $1 \times 7 = 7$

(a) Fill in the blanks: 219 W2018 MORE OVID

is the investigation of sound production in animals with the help of high quality recording equipment and tape recorders.

- (b) Name the author of the book "Molecular Ethology".
 - (c) Define homing behaviour in animals.

- (d) Find out the correct answer:

 Hippocampus of brain is associated with
 - (i) Hunger (ii) Memory
 - (iii) Aggression (iv) Pleasure.
- (e) Which one of the members of a typical group of Gorillas is called 'Silver back'?
- (f) What term is used to represent dropping out of 'insignificant' responses and strengthening of significant' responses in the life of animals?
- (g) Write true of false:Reproductive rate of r-selected species is high, which is low in k-selected species.
- 2. Give short answers to the following: $2\times4=8$
 - (a) What are the advantages of group feeding behaviour?
 - (b) Distinguish between conditioned and unconditioned reflexes.
 - (c) What are the different component members of a unimale bisexual group of monkey?

(2)

(d) Define imprinting with an example.

- 3. Answer any *three* questions from the following: $5\times 3=15$
 - (a) Write note on the Waggle Dance of Bees.

(b) Briefly discuss the role of Pheromones in Vertebrates.

- (c) Illustrate circadian rhythm taking the activity of Bee as an example.
- (d) Write how the hormones are related with aggressive behaviour of animals.
- (e) What is the usefulness of motivational model in Ethology? Write briefly the Psychohydraulic model of motivation developed by Lorenz. 2+3=5
- 4. Write about the common methods in Ethology that are adopted in the study of animal behaviour
 - (i) in laboratory and
 - (ii) in wild.

5+5=10

Or

What is meant by stimulus filtering? Explain peripheral and central filtering processes citing suitable examples. 2+4+4=10

(3)

5. Write two differences between innate behaviour and acquired behaviour. Illustrate instinct as a fascinating component of innate behaviour. Add note on the advantages of instinct in animals.

2+6+2=10

Or

Define learning. Explain with example the latent learning and discrimination type of learning in animals.

1+5+4=10

6. What are the advantages of social organisations of animals? Discuss about the social behaviour of ants. 5+5=10

hydraulic model of motivation developed by

Write the common characteristics of visual signals.

Explain how the visual signals are useful to animals in aggregation and dispersal. 5+5=10