

Roll No.....

Total No. of Sections : 03

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Code No. : 03/405(A)

Third Semester Examination, Dec. 2017

M.Sc. ZOOLOGY

Paper - IV

ANIMAL BEHAVIOUR

Time : 3 Hrs.

Max.Marks : 80

Note : Section 'A' consists of 10 very short answer type questions, all of which are compulsory and should be attempted first. Section 'B' consists of four short answer type questions with internal options. Section 'C' consists of four long answer type questions with internal choice.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences : (2x10=20)

- Q.1 Name the hormone of Intermediate pituitary that regulate the colour change in vertebrates.
- Q.2 Name the hormones that are involved in Emergency stress Reactions.
- Q.3 Who conducted experimental research on social behaviour on Bees?
- Q.4 Name the part of Brain responsible for emotion, hunger and thirst.
- Q.5 Define Reflex Action.
- Q.6 What do you mean by Hyperparasite ?
- Q.7 Who proposed the Concept Imprinting?

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- Q.8 Name two types of migration in fishes.
Q.9 Who described about courtship pattern in Stickleback fishes?
Q.10 What is the chemical substance that forms in pheromone in Ants?

Section - 'B'

Answer the following short-answer-type questions with word limit 200-250 : (5x4=20)

- Q.1 Write about the important features of innate behaviour.

OR

Write about the ethological role of limbic system.

- Q.2 What do you know about genetical basis of behaviour? Explain with examples.

OR

Explain with examples how animal develop various behavioural changes to avoid predation.

- Q.3 Discuss the role of courtship for successful selection.

OR

Write about the advantages of being social in primate world.

- Q.4 Give a brief account of circadian and circannual rhythms.

OR

Explain the mechanism of learning and memory with two examples.

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Section - 'C'

Answer the following long-answer-type questions with word limit 400-450 : (10x4=40)

- Q.1 Write an essay on neuroendocrine behaviour.

OR

Write short note on the role of fore and mid brain in basic behavioural patterns.

- Q.2 Explain about behavioural response to the environmental changes in homeothermal animals.

OR

Discuss about various feeding strategies in birds and mammals.

- Q.3 Explain the key words group selection, kin selection and sexual selection with proper examples.

OR

Write a scientific essay on social organization in insects.

- Q.4 Write about your ideas on migration in fishes.

OR

Write about various ways of conditioning. Explain its ethological significance.

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