

CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN,
NUVEM-GOA

SEMESTER END EXAMINATION, APRIL-MAY, 2023

Sem. II of BA / BSc ZOOLOGY

Class: FYBA / FY BSc

Course Title & Code: GE - Animal Behaviour (ZOG 102)

Maximum marks: 80 Date: 27/04/2023 Duration: 2 hrs Total No of pages: 2

Instructions: 1. All questions are compulsory

2. Figures to the right indicate marks

Q I. Answer **ANY FOUR** of the following: (4 x 4 = 16)

- i. Write a short note on 'methods of studying behaviour'.
- ii. Explain 'taxis' as a form of behaviour.
- iii. Explain 'learnt behaviour' citing examples.
- iv. Explain 'Altruism and Reciprocal Altruism' citing examples.
- v. What are 'Biological Rhythms'? Add a note on their specific properties.
- vi. Explain the effectiveness of 'Chrono-medicine'.

Q II. Answer **ANY FOUR** of the following: (4 x 4 = 16)

- i. What is 'behaviour'?
- ii. Explain the concept of 'habituation'?
- iii. List the benefits of 'formation of society' in different animal groups.
- iv. Illustrate and explain the 'relationship forms between a donor and a recipient'.
- v. Cite any two examples to show the 'effect of Lunar Rhythms on animal behaviour'.
- vi. Discuss the role of 'Melatonin in animal behaviour'.

Q III A. Discuss 'Proximate and Ultimate causes of behaviour'. (6)

OR

A. Give an account of Niko Tinbergen's contribution in the field of Animal Behaviour.

B. Write a note on 'Imprinting'. (6)

Q IV A. Give an account of 'associative learning'. (6)

OR

A. Discuss 'tropism' as stereotyped behaviour.

B. Discuss 'Structure of Honey bee society'. Add a note on their communication strategy for foraging. (6)

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Q V A. Write a note on 'sexual conflict in parental care'. (6)

OR

- A. Discuss strategies of communication observed in different animal groups.
- B. Define 'Zeitgebers'. Differentiate between 'Photic and Non-photic 'Zeitgebers'. (6)

Q VI A. Explain the concept of 'Synchronization' and its advantages in animal behaviour. (6)

OR

- A. Explain how Photoperiod influences the seasonal reproduction in Vertebrates.
- B. Define 'Chronotherapy'. State the advantages and disadvantages of Chronotherapy. (6)

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