

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE GENERAL DEGREE LEVEL III
(SEMESTER I) EXAMINATION – JULY/AUGUST 2023

Subject: Zoology

Time: 1 hour

Course unit: ZOO 3182 - Animal Behaviour

Index No :

Answer **all questions in Part 1 & one question from Part 2.**

Illegible handwriting would be penalized.

Question No.		Marks
Part 1	Q ₁	
	Q ₂	
	Q ₃	
	Q ₄	
Part 2	Q ₁	
	Q ₂	
Assessments		
Total		

Part 1

01. Read the incident mentioned below carefully and answer the questions **i** to **iv**.

When Pavan was seven years old, he was bitten by a snake, and he fainted. Pavan has now noticed that any form of hissing noise makes his palms sweating.

(i). Mention the behavioral pattern associated with the above incident.

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(ii). State whether the above behavioral pattern is an innate behaviour or learned behaviour, giving a reason.

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(iii). Write the word/s/phrase related to the above incident that explain following terms.

(a). Unconditioned Stimulus:

(b). Unconditioned Response:

(c). Conditioned Stimulus:

(d). Conditioned Response:

(iv). Mention one difference between the behaviour pattern mentioned in the part (i) and operant conditioning.

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02. (i). What is meant by parental care?

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(ii). Name two examples for **paternal** care observed in animals.

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(iii). "*Female investment in reproduction is higher than that of males*". Giving two reasons explain the statement.

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(iv). What is the reason behind **female dominance** observed in Hyenas? Mention one **consequence** occur due to female dominance.

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03. (i). Briefly explain the differences observed in foraging and group living between grazers and predators using *optimality theory*.

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(ii). Define the following terms using appropriate examples.

(a). Echolocation

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(b). Moulting migration

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04. (i). List down any two functions of group living in primates.

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(ii). Briefly explain what is meant by **allelomimetic** behaviour in vertebrates, using appropriate examples.

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(iii). What are **circa-monthly** rhythms in animals? Briefly state with appropriate examples.

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- (iv). Briefly describe the use of odour or chemical communication in animals.

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(40 Marks)

Part 2 : Answer only one Question.

01. Write a brief account on mating systems observed in vertebrates.

(30 Marks)

02. (i). List down any five advantages of animal migrations.

- (ii). Briefly describe the different migration patterns of fishes with appropriate examples.

(30 Marks)

~~03~~ Marks for continuous assessments

(30 Marks)

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