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AB-234344

M.Sc. (Semester-IV) Examination, June-2025

(Backlog)

ZOOLOGY

[Paper : First]

(Animal Behaviour)

Time Allowed : Three Hours

Maximum Marks : 70

Note : This question paper is divided into **four** sections. Attempt questions of **all four** sections as per direction. Distribution of marks is given in each section.

SECTION-A

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark. [10×1=10]

1. (A) Fill in the blanks.

(i) The reaction of an organism to its environment is called _____.

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(1)

[P.T.O.]

- (ii) The term Ethology was coined by _____.
- (iii) Search for goal is known as _____ behaviour.
- (iv) The book "Historia Animalium" was written by _____.
- (v) Change in behaviour due to experience is _____ behaviour.
- (vi) Imprinting is restricted to _____ age.

(B) Multiple choice questions :

- (vii) Sometimes animals eat very large amount of food yet showing other signs of hunger. This stage is called :
 - (a) Hyperphagia
 - (b) Polyphagia
 - (c) Polydipsia
 - (d) Neophobia

- (viii) In honeybee society workers consist of :
 - (a) Males only
 - (b) Females only
 - (c) Both (a) and (b)
 - (d) Drones
- (ix) Parental care is more pronounced in animals which has :
 - (a) More offsprings
 - (b) Less offsprings
 - (c) Moderate offsprings
 - (d) No role
- (x) Which of the following insect shows social behaviour?
 - (a) Locust
 - (b) Beetles
 - (c) Bugs
 - (d) Termites

(xi) Behavioural traits of offsprings of any organisms are controlled by its :

- (a) Genotype
- (b) Environment
- (c) Phenotype
- (d) Training by parents

(xii) Pheromones is transported near the surface of body through :

- (a) Blood vessels
- (b) Nervous system
- (c) Pulmonary tubules
- (d) Directly

SECTION-B

(Very Short Answer Type Questions)

Note: Attempt any five questions. Each question carries 2 marks.(Word limit : 25-30 words) : [5×2=10]

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2. (i) Reflex action
- (ii) Taxis
- (iii) Stimuli
- (iv) Hormone and behaviour
- (v) Motivation
- (vi) Orientation
- (vii) Male rivalry

SECTION-C

(Short Answer Type Questions)

Note: Attempt any five questions. Each question carries 4 marks.(Word limit : 250 words) [5×4=20]

3. (i) Parental care
- (ii) Kin selection
- (iii) Cost benefit analysis

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[P.T.O.]

- (iv) Motivation
- (v) Homeostasis
- (vi) FAP
- (vii) Sperm competition

SECTION-D

(Essay Type Questions)

Note: Attempt any three questions. Each question carries 10 marks. (Word limit : 500 words) [3×10=30]

4. (i) Describe sexual selection with consequences of mate choice.
- (ii) Explain social organisation in honey bee in detail.
- (iii) Explain thirst drive in goat with role of hormones.
- (iv) Describe flower recognition in honey bee in detail.

—X—