

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – ZOOLOGY

ANIMAL BEHAVIOUR

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Imprinting is most commonly observed in
(i) Adult mammals (ii) Newly hatched birds and mammals
(iii) Invertebrates (iv) Fish
- 2 Which sensory organ detects pheromones in many animals?
(i) Eyes (ii) Ears
(iii) Antennae (iv) Tongue
- 3 What is the term used to describe a biological rhythm that follows a roughly 24-hour cycle?
(i) Circadian rhythm (ii) Ultradian rhythm
(iii) Infradian rhythm (iv) Diurnal rhythm
- 4 Courtship behaviour is most commonly observed in
(i) Mammals (ii) Insects
(iii) Reptiles (iv) Fish
- 5 Intraspecific competition occurs
(i) Between different species for resources
(ii) When organisms cooperate for survival
(iii) During symbiotic relationships
(iv) Within the same species for resources

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Comment on the origin and history of ethology.
OR
b Compare fixed action pattern and ritualization behaviour among animals.
- 7 a Explain perceptual mechanism in animals with example.
OR
b Differentiate altruism and predator detection.
- 8 a Examine the foraging behaviours associated with animals.
OR
b Discuss how technological advancements contribute to the understanding of bird communication.

- 9 a Explain brood parasitism with example.
OR
b Summarize the parental care exhibited among mammals.
- 10 a Categorize the different types of aggression in animals.
OR
b Classify the various types of mutualism.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Analyze the different types of learning in animals.
OR
b Focus on the recording of different methods of animal behaviour.
- 12 a Discuss the impact of pheromones among animal community.
OR
b Explore the different methods of studying animal behaviour.
- 13 a. Investigate the significance of biological rhythms in various animals.
OR
b Compare the sensory modalities used by mammals and insects in communication.
- 14 a Narrate the courtship behaviour in birds and mammals.
OR
b Highlight the phenomenon of parental care in birds.
- 15 a Elaborate the social behaviour of lion.
OR
b Elucidate the types of territorial behaviour in animals.

Z-Z-Z

END