

(6 pages)

Reg. No. : .....

Code No. : 10879 E      Sub. Code : ESZO 22

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2024.

Second Semester

Zoology

Skill Enhancement Course III – ANIMAL BEHAVIOUR

(For those who joined in July 2023 onwards)

Time : Three hours      Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. According to Darwin the term fitness refers to \_\_\_\_\_
  - (a) Mental fitness
  - (b) Physical fitness
  - (c) Social fitness
  - (d) Reproductive fitness

2. Polygenes exhibit in \_\_\_\_\_
  - (a) Different phenotypes
  - (b) Similar phenotype
  - (c) Different genotype
  - (d) Similar genotype
3. Who proposed sexual selection theory
  - (a) Darwin      (b) Muller
  - (c) Weismann      (d) Hamilton
4. Which is the smallest social group?
  - (a) Family      (b) Population
  - (c) Village      (d) Society
5. Duckling will follow the first moving object they meet after hatching. This type of behavior is called \_\_\_\_\_
  - (a) Instinct
  - (b) Conditioning
  - (c) Imprinting
  - (d) Habituation

6. Experiment performed by Ivan Pavlov led to what theory
- (a) Classical conditioning
  - (b) Operant conditioning
  - (c) Social learning
  - (d) Behavior shaping
7. Which of the following is a form of animal communication?
- (a) Smell                      (b) Vocalization
  - (c) Color                      (d) All the above
8. Which phrase best describes an instinctive behavior?
- (a) Typically innate and relatively flexible
  - (b) Generally learned, and cumulative
  - (c) Often occurs where mistakes are not costly
  - (d) Usually performed incorrectly for the first time
9. The daily cycle of activity that occurs over a 24-hour period of time is called
- (a) Kinesis behavior
  - (b) Taxis behavior
  - (c) Circadian rhythm
  - (d) Stimulus response

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10. Colour vision in human eye is the function of photoreceptor cells named \_\_\_\_\_
- (a) Rods                      (b) Cones
  - (c) Blind spot              (d) All the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Explain polygenic inheritance of behavior.
- Or
- (b) Explain Darwinian fitness.
12. (a) Describe social organization.
- Or
- (b) Explain altruism.
13. (a) Explain orientation.
- Or
- (b) Explain cognitive aspects of learning.
14. (a) Elaborate the Instinct.
- Or
- (b) Explain the use of tool culture.

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15. (a) Explain the photoreception.

Or

(b) Explain the chronotherapy.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the evolution of adaptive strategies.

Or

(b) Discuss the natural selection and behavior.

17. (a) Elaborate the neural control of behavior.

Or

(b) Explain the visual adaptations to unfavourable environment.

18. (a) Discuss the conditioning and animal learning.

Or

(b) Describe homeostasis and learning.

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19. (a) Discuss the complex behaviour of honey bees.

Or

(b) Explain non verbal communication in human.

20. (a) Explain circadian pacemaker system with reference to *Drosophila*.

Or

(b) Discuss the biological clock in man.

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