

Bs/ZOO/C15

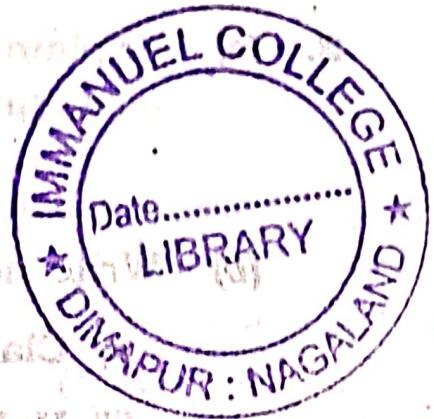
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(FYUGP)

(6th Semester)

ZOOLOGY

(MAJOR)



Paper : ZOO/C15

(Animal Behaviour and Chronobiology)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

***The figures in the margin indicate full marks
for the questions***

1. (a) Explain the contributions of Konrad Lorenz, Nikolaas Tinbergen and Karl von Frisch in the study of animal behaviour. How did their experiment and findings shape modern ethology? 15

Or

- (b) Explain proximate and ultimate causes of behaviour. Add a note on the methods and recording of a behaviour.

(2)

2. (a) Explain stereotyped behaviour (orientation and reflexes) in animals. 15

Or

- (b) Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (i) Classical and operant conditioning
- (ii) Habituation

3. (a) Describe the various communications used by animals. How do these signals function in social interaction such as mating, warning and territory defense? 15

Or

- (b) Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (i) Mate choice
- (ii) Sexual dimorphism

4. (a) Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (i) Biological oscillations
- (ii) Adaptive significance of biological clock

Or

- (b) Describe the historical developments of chronobiology as a scientific discipline. 15

L25/586

(Continued)

(3)

5. (a) Write notes on any two of the following : $7\frac{1}{2} \times 2 = 15$

- (i) Tidal and lunar rhythms
- (ii) Photic and non-photic zeitgebers
- (iii) Chronopharmacology

Or

- (b) Write a detailed account on the types and characteristics of biological rhythms. 15



L25—100/586

Bs/ZOO/C15