

Bs/ZOO/C15T

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(FYUGP)

(6th Semester)

ZOOLOGY

(MAJOR)

Paper : ZOO/C15T

(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) Give an account on the origin and history of ethology. Also add the profile of Ivan Pavlov. 10+5=15

Or

- (b) Explain the methods by which animal behaviour can be recorded. What are the ultimate causes of behaviour? 10+5=15

(2)

2. (a) Explain individual behavioural patterns.
Add a note on reflexes. $7\frac{1}{2}+7\frac{1}{2}=15$

Or

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

- (i) Instinct versus learnt behaviour
- (ii) Associative learning
- (iii) Imprinting

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

- (i) Altruism
- (ii) Asymmetry of sex
- (iii) Sexual conflict in parental care

Or

- (b) Explain intra-sexual selection and inter-sexual selection. 15

4. (a) Explain the concept of average, amplitude, phase and period. 15

Or

- (b) Explain the historical developments in chronobiology.

(3)

5. (a) Explain the relevance of biological clock in regard to chronomedicine and chronotherapy. 15

Or

- (b) Write notes on the following : 5+5+5=15
- (i) Circannual rhythms
 - (ii) Circadian rhythms
 - (iii) Concept of synchronization and masking

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