Lib-4/12/18 M

This question paper contains 3 printed pages.

Your Roll No.

Sl. No. of Oues. Paper: 641

Unique Paper Code

: 32237901

Name of Paper

: Animal Behaviour and

Chronobiology

Name of Course

: B.Sc. (H) Zoology : DSE - 1

Semester

: V

Duration

: 3 hours

Maximum Marks

: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt five questions in all including Question No. 1, which is compulsory.

- 1. (a) Define the following:
 - (i) Actogram
 - (ii) Reinforcement
 - (iii) Jet lag
 - (iv) Code breakers
 - (v) Latent learning.

1×5=5

- (b) Differentiate between the following:
 - (i) Innate and Learned behaviour
 - (ii) Intersexual and Intrasexual selection
 - (iii) Circatidal and Circalunar rhythms
 - (iv) Eusocial species and Subsocial species

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		(v) Master clock and Slave clock	
		(vi) Polymorphism and Polytheism. 2×6=12	
	(c)	Give contributions of the following:	
		(i) Wallace Craig The Country of the	
		(ii) Konrad Lorenz	
		(iii) Hamilton	
		(iv) Niko Tinbergen. 1×4=4	
	(d)	Fill in the blanks:	
		(i) Pavlov's dog salivation experiment is an example of	
		conditioning.	
		(ii) Rheotaxis is movement of the animal with respect to	
		Constitution and the same and t	
		(iii) is a semiochemical, which mediates	
		interspecific interactions in a way that benefits the	
		emitting organism but harms the receiver.	
		(iv) is known as father of chronobiology.	
	(e)	Illustrate direction component of waggle dance in	
		honeybees with the help of diagrams. (No description	
		required.)	
	(a)	Give a detailed contribution of Karl von Frisch to animal	
		ethology. 6	
	(b)	Explain exogenous and endogenous rhythms with the help	
		of suitable examples.	
		(ii) Intersexual and intrasecual selection : To	
1	(a)	Discuss various methods of studying and recording animal	
		behaviour. To be the second of the second temperature (see) 6	

	(0)	Communication remains boon to form successful society.
		Explain. 6
4.	(a)	Explain with examples the role of parental care in mate
		choice. Add a note on the advantages and disadvantages
		of parental care.
	(b)	Explain how Fixed Action Patterns is different from
		Reflexes with the help of suitable example. 6
5.	(a)	Discuss reciprocal altruism with suitable examples. Add a
		note on its advantage in species survival.
	(b)	Explain positive and negative reinforcement with suitable
		examples. 6
5.	(a)	Explain proximate and ultimate causes of behavior with
		help of suitable examples.
	(b)	Explain intersexual selection. Why is it advantageous for
		species?
7.	Wr	ite short notes on any three of the following:
	(a)	Chronotherapy
	(b)	Selfish gene
	(c)	Imprinting
	(d)	Infanticide
	(e)	Supernormal stimulus. 3×4=12