Lib-4/12/18 M

This question paper contains 3 printed pages.

Your Roll No	
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Sl. No. of Ques. Paper: 641

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Unique Paper Code

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: 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=1
	(c)	Give contributions of the following:
		(i) Wallace Craig
		(ii) Konrad Lorenz
		(iii) Hamilton
		(iv) Niko Tinbergen. 1×4=
	(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 t
		Evades regularly to a production
		(iii) is a semiochemical, which mediate
		interspecific interactions in a way that benefits th
		emitting organism but harms the receiver.
		(iv) is known as father of chronobiology.
	(e)	Illustrate direction component of waggle dance i
		honeybees with the help of diagrams. (No description
		required.)
	(0)	Give a detailed contribution of Karl von Frisch to anima
	(a)	ethology.
	(h)	Explain exogenous and endogenous rhythms with the hel
	(0)	of suitable examples.
		of suitable examples.
	(a)	Discuss various methods of studying and recording anima
		behaviour.
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	(b)	Communication remains boon to form successful so	ciety.
		Explain.	6
4.	(a)	Explain with examples the role of parental care in	
		choice. Add a note on the advantages and disadvan	tages
		of parental care.	6
	(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.	6
	(b)	Explain positive and negative reinforcement with su	itable
		examples.	6
6.	(a)	Explain proximate and ultimate causes of behavior	with
		help of suitable examples.	6
	(b)	Explain intersexual selection. Why is it advantageout	us for
		species?	6
7.	Wr	rite short notes on any three of the following:	
	(a)	Chronotherapy	
	(b)	Selfish gene	
	(c)) Imprinting	
	(d)) Infanticide	
	(e)	Supernormal stimulus. 3>	×4=12