This	quest	ion pa	aper contains 3 printed page	s]
				Roll No.
S. N	o. of Ç	(uestic	on Paper : 1392	
Unio	que Pa	aper C	code : 2231501	F-7
Nan	ne of	the Pa	per : Animal Behavio	our
Nan	ne of	the Co	ourse : B.Sc. (Hons.) Z	oology-Erstwhile FYUP
Sem	ester		: V	
Dur	ation :	3 Но	ours	. Maximum Marks : 75
	(Wr	ite yo	ur Roll No. on the top im	mediately on receipt of this question paper.)
			Attempt five q	uestions in all including
			Question No.	1 which is compulsory.
1.	. (a) Define the following terms:			
		(i)	Reflex	
		(ii)	Zeitgeber	
		(iii)	Polyphenism	
		(iv)	Sign stimuli	•
		(v)	Circadian rhythm.	
	(b)	Diff	erentiate between the following	100
		(i)	Primary and Secondary ori	entation
			•	

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	(ii)	Focused learning and Generalized learning						
	(iii)	Kinesis and Taxis						
•	(iv)	Altricial and Precocial	_					
	(v)	Habituation and Sensitization.		·				
(c)	Brie	efly state the important contribution of the following scientists: $3\times 2=6$						
	(i)	Niko Tinbergen						
	(ii)	Karl Von Frisch						
	(iii) Ivan Pavlov.							
(d) Match the items given in column A with the items in column B: $6 \times 1 =$								
		Column A		Column B				
	(i)	Physogastry	(a)	B. F. Skinner				
	(ii)	Queen substance	(b)	Orthokinesis				
,	(iii)	Fixed Action Pattern	(c)	Hamilton				
	(iv)	Operant conditioning	(<i>d</i>)	9-oxydecanoic acid				
	(v)	Woodlice	(e)	Termite				
	(vi)	Inclusive fitness	(f)	Greylag goose.				
With	suital	ole examples, describe altruism. Expla	in evolu	ntionary significance of altruistic behaviour				
in animals.								

2.

- 3. (a) With suitable examples, describe infanticide behaviour of males and add a note on its significance. Discuss the tactics adopted by the females to check infanticide by the males.
 - (b) Explain different types of sensory stimuli used in courtship behaviour by the males.

 8+4=12
- 4. Describe the Pavlov's experiment on classical conditioning. Add a note on acquisition and extinction.
- Describe intrasexual selection. Explain various tactics adopted by males in response to intrasexual selection.
- 6. Describe social organization in honeybee.

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7. Write short notes on any three of the following:

 $3 \times 4 = 12$

- (i) Entrainment
- (ii) Tail wagging dance
- (iii) Innate behaviour
- (iv) Supernormal stimuli.