

WEST BENGAL STATE UNIVERSITY B.Sc. Honours 5th Semester Examination, 2024-25

ZOOADSE01T-ZOOLOGY (DSE1/2)

Time Allotted: 2 Hours



Full Marks: 40

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

	1. Answer any <i>eight</i> questions from the following:	2×8 = 16
	(a) What is the difference between taxis and kinesis?	2~0 = 10
	(b) What do you understand by Cultural transmission of behaviour? Give an average	
	(c) what is dophanaxis in social insect?	
	(d) Define 'sign stimulus' with example.	
	(e) What is the primary function of grooming in social animal?	
	(I) What do you mean by intersexual selection?	
	(g) What do you mean by ad libitum observation?	
	(h) Who was the premier Ornithologist of India? What is his nickname in this field?	
	(1) what is orientation?	*
	(j) Differentiate between round dance and waggle dance.	
	(k) Distinguish between instinctive behaviour and learning behaviour.	
	(1) Who is regarded as the founder of Indian Chronobiology? Name the English	
	primatologist who is known for the research on Chimpanzees.	
2	2. Answer any <i>three</i> questions from the following:	$3 \times 3 = 9$
	(a) What is imprinting? Explain it with example.	
	(b) Write a short note on tactile communication.	
	(c) Describe the social structure of honey bee.	
	(d) Briefly state the important contribution of the following scientist	
	(i) Niko Tinbergen and (ii) Karl von Frisch	
	(e) What is the Handicap Principle? Who proposed it?	2+1
3.	Answer any three questions from the following:	
٠.	•	$5 \times 3 = 15$
	(a) Differentiate between classical conditioning and operant conditioning. Define Habituation with example.	3+2
	(b) What is FAP? Explain it with example. Add a note on the characteristics of stereotyped behaviour.	1+2+2
	(c) Define an altruistic behaviour with example. How can altruism be explained by Hamilton's rule?	2+3
	(d) What is intrasexual selection? Explain various tactics adopted by males in	1+4
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	(e) Describe the role of photoperiod and melatonin in seasonal reproduction of vertebra	tes. 5

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