



WEST BENGAL STATE UNIVERSITY B.Sc. Honours 5th Semester Examination, 2023-24



Full Marks: 40

ZOOADSE02T-ZOOLOGY (DSE1/2)

Time Allotted: 2 Hours

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.

	. Leavesting from the followings	2×8 = 16
1.	Answer any <i>eight</i> questions from the following:	2.0 10
, ,	What is spermatheca?	
(/	Distinguish between tergum and sternum.	
` '	Differentiate between hypognathous and opisthognathous insects.	
	Define allelochemicals with examples.	
()	What are sclerites?	
	Distinguish between apposition and superposition eyes.	
, (g)	Name two insects that can turn their heads. What is 'Royal Jelly'?	
$\smile_{(h)}$	What is trophallaxis?	
(i)	What is hemocyte?	
	Draw and label a typical leg in an insect	
(k)	Define capitate antenna with examples.	
(X)	Name the vectors of yellow fever and encephalitis	•
	de la Carrada Gallarrina.	$3 \times 3 = 9$
χ.	Answer any <i>three</i> questions from the following:	3^3 - 3
(a)		1.0
(p)	What do you mean by dance language of honey bees? Write about the round	1+2
	dance and waggle dance of honey bees.	
(c)	Write short note on:	
	(i) Dead heart	
	(ii) Fungus garden.	
(d)	Mention the order of the following insects	
•	(i) Ant (ii) Grasshopper (iii) Stick insect (iv) Weevil (v) Moth (vi) Mosquito	4.4.4
(e)	What does PTTH stand for? From where is it secreted? Mention the role of	1+1+1
	PTTH in insect development.	
	Answer any <i>three</i> questions from the following:	$5 \times 3 = 15$
/s.		
	Describe tracheal respiration in insects with suitable diagrams. Describe the nervous system of an insect with suitable diagrams.	
` '	Mention characteristic features of the following insect orders. Give examples	21 +21
	(scientific names) of each order.	$2\frac{1}{2} + 2\frac{1}{2}$
	(i) Coleoptera (ii) Diptera	
W	Describe different types of insect wings with their adaptive significance.	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	What is co-evolution? Define any three types of co-evolution with suitable	1+3+1
	examples. What are hamuli?	
	X	