5 SEM TDC DSE ZOO (CBCS) 4 (H)

2022

(Nov/Dec)

ZOOLOGY

(Discipline Specific Elective)

(For Honours)

Paper : DSE-4

(Biology of Insecta)

Full Marks: 53
Pass Marks: 21

Time: 3 hours and make

The figures in the margin indicate full marks for the questions

1.	Fill	in the blanks: 1×5=
	(a)	In locust, the major portion of digestion takes place in
	(b)	is found in Chironomus larvae as respiratory pigment.
	(c)	Odontotermes obesus is the scientific

(d)	The formation of	spermatophores takes	
	place in the	gland in	
	cockroaches.		

(e) Insects breathe through _____

2. Write short notes on any two of the following:

- (a) General features of insects
- (b) Phytophagous insect
- (c) Spiracles

3. Answer any *three* of the following questions: 4×3=12

- (a) Write a brief note about the adaptations of insect legs in different habitats.
- (b) Give an account of antennae of insects.
- (c) Distinguish between Corpus cardiacum and Corpus allatum.
- (d) Give an account on insect hormones.
- 4. What are the allelochemicals? Write briefly about the role of these chemicals in host plant mediation.

 4+4=8
- 5. Give an account of the basis of classification of insects.

O

Classify the class Insecta up to order with example.

6. Explain the respiratory or digestive system of insects with suitable labelled diagrams.

7

7. Discuss how mosquitoes and housefly act as important insect vectors.

Or

Write short notes on any *two* of the following: $4\frac{1}{2}\times2=9$

- (a) Malpighian tubules
- (b) Social organization in insect (any insect)
- (c) Paddy pests
