ZOOLOGY Paper-I

Biodiversity & Ecology-I (ZOO-201)

Time Allowed: 3 Hours

Note:

Max. Marks: 36

1. Question No. 1 is compulsory.

- 2. In all, five questions are to be attempted including the compulsory question.
- 3. Select any one question from each unit.
- 1. Explain the following:
 - (a) Malpighian tubules.
 - (b) Rostrum.
 - (c) Ecdyson.
 - (d) Tentorium.
 - (e) Hyperparasitism.
 - (f) Ecological density.
 - (g) Bioluminescence.
 - (h) Eurythermal.

1 × 8

	Unit – I	10
2.	. Describe the structure and working of the eye of the cockroach.	
3.	Give an account of the social life of honey bee.	7
7	Unit—II	7
4.	(a) Give an account of cephalothoracic appendages of prawn.	
	(b) Describe life cycle of Anopheles.	4
5.	Classify up to order and give a brief ecological note and economic and	3
	importante of:	1116
	(a) Eupagurus (Hermit crab).	
	(b) Palamnaeus (Scorpion).	3
	(c) Limulus (King crab).	2
	Unit-III	2
6.	Discuss the influence of light on the animals in their environment.	
7.	(a) Explain the concept of flow of energy in an ecosystem.	,
	(b) Define niche.	3
	Unit-IV	1
8.	Discuss the different characteristics of population in detail and a	. 1.
	mention different ways to regulate it.	1150
9.	Describe briefly:	. /
	(a) Mimicry	•
	(b) Carbon cycle.	
		4
	ZOOLOGY Paper-II	
	Biodiversity & Ecology-II (ZOO-202)	•
	Allowed: 3 Hours	: 36
ote:	1. Question No. 1 is compulsory.	
	2. In all, five questions are to be attempted including the compuls	รดท
	question.	,0.,
	3. Select any one question from each unit.	
1.	Explain the following:	
•	(a) Osphradium	
	(b) Monopectinate gill	
	(c) Systematic position of Antadox	
	ricdemann's bodies	
	(e) Hydrarch	
	(f) Fossil Fuel	
	(g) Altruism	
	(h) Buffer Zone.	× 8

(b) Biosphere reserve.