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Exam. Code: 103202 Subject Code: 1341

B.A./B.Sc. 2nd Semester BIODIVERSITY-II (Arthropoda to Hemichordata) Paper-Zoology Zoo-II (B)

Time Allowed—3 Hours]

[Maximum Marks—35

Note:—(1) Attempt five questions.

- (2) Section A is compulsory. It consists of seven short answer type questions. Each carries 1 mark.
- (3) Attempt four questions from Section B selecting at least one from each unit. Each question carries 7 marks.

SECTION-A

- 1. Write a short note on osphradium in *Pila*.
- 2. Write briefly on the sterile castes present in the termite colony.
- 3. Write a short note on pedicellariae present in star fish.
- 4. Write briefly about tarsus in cockroach.
- 5. Write a note on collar region of tongue worm.
- 6. Write a note on trochophore larva found in molluscs.
- 7. Give the complete systematic position of Balanoglossus.

7×1=7

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SECTION-B

		UNII—I	
1.	(a)	Describe the structure and mode of working of compound eye of cockroach.	of 5
	(b)	Write in brief about ootheca formation in cockroac	h
			2
2.	(a)	Discus about the different types of castes forming	a
			5
	(b)	Write briefly nuptial flight in honey bees.	2
UNIT—II			
3.	(a)	Describe the ctenidium of <i>Pila</i> ; also describe the mechanism of aquatic respiration in this animal.	
	(b)	Write about the pallial complex found in apple snai	1.
		AUST BE U. S' emigad pro class from a collect.	3
4.	(a)	Give a detailed account of pearl formation in oyster	S
		and clams.	5
	(b)	Write about the apparent adaptations of Pila.	2
		UNIT—III	
5.	(a)	Discuss the perihaemal and haemal systems found i	n
			5
	(b)	List the functions of tube feet in star fish.	2

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(Contd.)

6. In detail explain the evolutionary significance of larval forms echinoderms by highlighting various types of larvae found in this group.

UNIT—IV

- 7. (a) Discuss about the structure and functions of body wall of *Balanoglossus*. 4
 - (b) List the similarities between *Balanoglossus* and other nonchordates.
- Discuss the affinities of hemichordates with non-chordates and chordates by highlighting the differences and similarities among these.

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