

Exam. Code : 103202

Subject Code : 1313

B.A./B.Sc. Semester—II

ZOOLOGY

ZOO—II B : Biodiversity—II

(Arthropoda to Hemichordata)

Time Allowed—5 Hours] [Maximum Marks—35

Note :— (1) Attempt *five* questions in all.

(2) Section A is compulsory. It consists of *seven* short answer type questions. Each question carries 1 mark.

(3) Attempt *four* questions from Sections B selecting at least *one* from each unit. Each question carries 7 marks.

SECTION—A

1. (a) Explain uropod in prawn.
- (b) Give the functions of utricular glands in cockroach.
- (c) List the functions of tube feet in starfish.
- (d) What is madreporite ? Explain.
- (e) Give the structure and function of osphradium in pila.
- (f) Give the duties of workers in honeybees.
- (g) List the chordate features of hemichordates.

SECTION—B

UNIT—I

2. Describe the adaptations and systematic position of Palaemon.
3. How do the following processes occur in cockroach :

Locomotion, Ootheca formation and Excretion.

UNIT—II

4. Describe the social life of honeybees.
5. Give an account of organs found in the pallial cavity of pila.

UNIT—III

6. Describe the alimentary canal of Asterias and explain the process of ingestion and digestion of food in this animal.
7. Describe the echinopluteus and ophiopluteus larvae of echinoderms.

UNIT—IV

8. Discuss the affinities of hemichordates with chordates.
9. Give the habit and habitat of Belanoglossus. Discuss its adaptations.