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Exam. Code : 103202 Subject Code : 1269

B.A./B.Sc. 2nd Semester ZOOLOGY

Zoo-II-B : Biodiversity—II (Arthropoda to Hemichordata)

Time Allowed—Three Hours] [Maximum Marks—35] Note :- (1) Candidates are required to attempt *five* questions in total, selecting at least one question from each Section.

- The **fifth** question may be attempted from any (2)Section.
- (3) Each question carries 7 marks.

SECTION-A

- (a) Write a note on double mode of locomotion in 1. cockroach. 2
 - (b) Describe the female reproductive system of Periplaneta Americana along with well labeled diagram. 5
- (a) Write briefly about nuptial flight in honey bees. 2. 2
 - (b) Explain the phenomenon of polymorphism and social life in termites. 5

SECTION-B

- 3. (a) Write a short note on Ctenidium in Pila. 2
 - (b) Discuss different types of sensory organs found in apple snail. 5
- What do you understand from the term torsion? Discuss 4. its process, effect and advantages. Also write on the process of detorsion in gastropods. 7

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SECTION-C

| 5. | (a) | Star fish has the ability to undergo autotomy a regeneration. Comment. | and 2 |
|----|-----|---|----------|
| | (b) | Discuss the ambulacral system in star fish alo with diagrammatic representation. | |
| 6. | | ite notes on the following with respect inoderms : | to |
| | (a) | Auricularia larva | 2 |
| | (b) | Ophiopluteus larva | 2 |
| | (c) | Evolutionary significance of larval forms. | 3 |
| | | SECTION-D | |
| 7. | (a) | Give the complete systematic position of the Act worms. | ron 2 |
| | (b) | Describe the external characters of Tongue worr | ns. |
| | | | 5 |
| 0 | Die | aves the offinities of hemichardates w | ith |

 Discuss the affinities of hemichordates with non-chordates and chordates by highlighting the differences and similarities among these.

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