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**NEPVA—3021—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (NEP) (First Year) (First Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2024**

**ZOOLOGY**

**Paper—SZOOC—1101**

**(Biodiversity of Non-Chordates)**

**(Monday, 16-12-2024)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

- N.B. :-**
- (i) Question Number 1 is compulsory.
  - (ii) Out of remaining 5 questions (Q. No. 2 to Q. No. 6) answer any 3 questions.
  - (iii) All questions carry equal marks.
  - (iv) Illustrate your answers with suitable labeled diagrams, wherever necessary.

1. Answer each of the following : 10
- (a) Describe in brief the characteristic features of Non-Chordates.
  - (b) Explain the general characters of Phylum Coelenterata.
  - (c) Describe the economic importance of insects.
  - (d) Describe the general features of Phylum Mollusca.

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2. Describe the structure and life cycle of *Plasmodium vivax*. 10
3. Describe the structure, life cycle and pathogenicity of *Ascaris lumbricoides*. 10
4. Describe the nervous system of Cockroach. 10
5. Give an account of the general characters and affinities of Hemichordata. 10
6. Answer each of the following : 10
  - (a) Give a brief account of the canal system in Sycon.
  - (b) Describe the structure of *Taenia solium*.
  - (c) Give an account of vermiculture and vermicomposting.
  - (d) Describe the external morphology of Star fish.