

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPG–1085

M.Sc. (Previous) Examination, 2021

ZOOLOGY

Paper - I

**(Taxonomy, Phylogeny, Structure and Function
in Invertebrates)**

Time : 1½ Hours]

[Maximum Marks : 75

Section–A

(Marks : 2 × 10 = 20)

Note :– Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section–B

(Marks : 5 × 5 = 25)

Note :– Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section–C

(Marks : 10 × 3 = 30)

Note :– Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section–A

2 each

1. (i) What are the general rules of nomenclature ?
- (ii) What is Karyotaxonomy ?

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BPG–1085 P.T.O.

- (iii) What do you mean by lophophorate coelomate ?
- (iv) What is the importance of Planula Larva ?
- (v) What is the difference between locomotion and movement ?
- (vi) Define Metamerism.
- (vii) Differentiate connective and commissure.
- (viii) What do you mean by Neurosecretion ?
- (ix) Define Commensalism.
- (x) What is the pathogenesis of entamoeba ?

Section–B

5 each

2. Write a note on theories of Biological Classification.

Or

Describe in brief the preparation and use of taxonomic keys.

3. Write a short note on origin of Protozoa.

Or

Write a note on Deuterostome.

4. Describe the mechanism of osmoregulation in freshwater invertebrates.

Or

Discuss about the feeding mechanism in insects.

5. Throw a light on chemoreceptors in invertebrates.

Or

Evaluate the role of hormones in development of insects.

6. Elucidate the life-cycle of trypanosoma gambiense.

Or

Write a note on Arthropod parasites of public health importance.

Section–C

10 each

7. Evaluate the significance of cytology and genetics in taxonomy.
8. Describe the origin of Bilateria from Radiata.
9. Illustrate the structural and functional organization of excretory system in Arthropods.
10. Explain larval forms of crustacea.
11. Describe the disease transmitted, causes, prevention and control of fleas.