

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPP-1074

M.Sc. (Previous) Examination, 2022

ZOOLOGY

Paper - I

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

Time : 3 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

1. (i) Define Binomial Nomenclature.
- (ii) What is Polytypic Species ?

BR-227

(1)

BPP-1074 P.T.O.

- (iii) Explain Phylogenetic significance of Rhynchocoela in brief.
- (iv) Explain the term Radiata and Bilateria.
- (v) Define the term Filter Feeding.
- (vi) What is Osmoregulation ?
- (vii) Define Parthenogenesis.
- (viii) Define Direct and Indirect Development.
- (ix) Define Symbiosis.
- (x) Write the name of pathogen protozoan parasites of man.

Section-B

2. Write a note on rules of Nomenclature.

Or

What is Population Systematics ? Explain.

3. Write a note on origin of Radiata.

Or

Write a note on origin of Multicellularity.

4. Explain the flight mechanism in insects.

Or

Write a note on Respiratory Pigments in Invertebrates.

5. Write about Endocrine system found in Insects.

Or

Write a note on Photoreceptors.

6. Write a note on parasitic adaptation of Platyhelminthes Parasites.

Or

Write a note on Protozoan parasites of Public Health Importance.

Section–C

7. Illustrate the types of variations within a Single Population.
8. Describe the phylogenetic relationship between the Coelomate phyla.
9. Explain in detail the ciliary movements in Protozoa.
10. Define Nervous System. Give an illustrated account of plan of Nervous System of Arthropods.
11. Describe the life-cycle of Plasmodium Vivax with suitable diagrams.