

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022  
(First Semester)  
Branch – ZOOLOGY

INVERTEBRATA/ANIMAL DIVERSITY - I

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Name the Cyclical movement of food vacuoles in *Paramecium*.  
(i) cyclosis (ii) metagenesis  
(iii) metamorphosis (iv) cytolysis
2. What is the Primary host of *plasmodium*?  
(i) mosquito (ii) man  
(iii) mouse (iv) Pig
3. Choose the organism which forms the connecting link between arthropod and Annelida  
(i) nereis (ii) archeopterix  
(iii) limulus (iv) Peripatus
4. What is the Last pair of appendages in Prawn?  
(i) uropods (ii) pleopods  
(iii) maxillipedes (iv) exopodite
5. Name the organ which is used for an aquatic respiration in Pila.  
(i) gills (ii) Ctenidium  
(iii) spicules (iv) spiracles

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Sketch the *Paramecium* structure and label all the parts.  
OR  
b Explain the Holophytic nutrition in Protozoa.
- 7 a Outline the significance of Coral reefs.  
OR  
b Bring out the general characteristics of Phylum Coelenterata.
- 8 a Explain about the Clitellum.  
OR  
b Bring out the features of Class Polychaeta upto Order level.
- 9 a Narrate the salient features of Class Arachnida.  
OR  
b Explain the Chelate appendages of Prawn.

Cont...

Cont...

- 10 a Summarise the affinities of *Balanoglossus*.  
OR  
b Outline the characteristics of Class Gastropoda.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Discuss the general characteristics of Phylum Protozoa.  
OR  
b Enumerate the Structure of *Leucosolenia*.
12. a. Highlight the general characteristics of phylum Platyhelminthes.  
OR  
b Examine the symptoms caused by parasite *Ancylostoma*.
- 13 a Highlight the general characteristics of phylum Annelida.  
OR  
b Discuss in detail about Vermiculture.
14. a. Explain the affinities of *Peripatus*.  
OR  
b Elaborate the general characteristics of Phylum Arthropod.
- 15 a. Describe the external structure of Star fish.  
OR  
b. Discuss the general characteristics of Phylum Mollusca.

Z-Z-Z

END