

Bago University
Department of Zoology
First Semester Examination, March 2019

Second Year BSc
(Zoology Specialization)
Answer ALL questions

Zool. 2104
Acoelomata and Coelomata
Time Allowed: (3) Hours
(10 marks)

I. State TRUE or FALSE to the following statements.

1. Most pseudocoelomates have a complete, one-way digestive tract.
2. In nematodes the anterior mouth is bounded by six lips.
3. In *Ascaris lumbricoides*, the cuticle forms the outermost layer.
4. In *Ascaris lumbricoides*, the dermis secretes the cuticle and forms the epidermal chords.
5. In some Polychaeta the coelomic peritoneum gives rise to excretory yellow cells.
6. As many as 50 to 5,00 adult *Ascaris* may be present in a single host.
7. Excretory organs of coelomic animals lead from the coelom to the outside.
8. In leech cephalic is composed of the first five segments.
9. The perivisceral coelom of annelida has been lost in leeches.
10. There are no special respiratory organs in *Hirudinaria*.

II. Complete the following statements with appropriate words.

(10 marks)

1. *Schistosoma mansoni* is a parasitic -----.
2. Nematodes belong to the Phylum -----.
3. *Schistosoma mansoni* is a parasite that has both and ----- and a definitive host.
4. On average, *Schistosoma mansoni* lives about ----- days.
5. Nematodes comprises the ----- round-worm with slender cylindrical bodies.
6. In *Schistosoma mansoni* the ----- forms a sporocyst.
7. In *Ascaris lumbricoides* the male is ----- in size and has a curved tail.
8. The body of leech is composed of ----- somites.
9. Leech is ----- (blood-sucking) in habit.
10. In *Hirudinaria*, the ciliated organ manufacture coelomic ----- corpuscles.

III. Answer ALL questions

(10 marks)

1. State the disease causes and prevention of *Schistosoma*.
2. Give the systematic position of *Ascaris lumbricoides*.
3. Mention the three classes of annelids.
4. List the external apertures of Leech.
5. State briefly on the nervous system found in leech.

IV. Answer ALL questions

(20 marks)

1. Briefly explain about the habit and habitat of roundworm.
2. Write notes on physical description of *Schistosoma mansoni*.
3. List the functions of body wall found in Leech.
4. Name the parts of female reproductive organs of leech and explain the ovisacs and oviducts.

V. Answer ANY THREE questions

(30 marks)

1. Explain the habitat and behavior of *Schistosoma mansoni*.
2. Enumerate the characteristic of the Phylum-Nematoda.
3. Describe in detail about the alimentary canal in *Ascaris lumbricoides*.
4. Explain briefly on the life cycle of *Ascaris lumbricoides* with relevant diagram.
5. Name the parts of male reproductive organs of Leech and explain about the atrium.
6. Draw, label and describe the stages in cocoon formation found in *Hirudinaria*.

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