

Bago University
Department of Zoology
Second Semester Examination, September 2019

Third Year (B.Sc)
(Zoology Specialization)
Answer ALL questions

Zool. 3112
Parasitology
Time Allowed: (3) Hours

I. State TRUE or FALSE to the following statements.

(10 marks)

1. Almost all the phyla of the animal kingdom contain parasitic form.
2. All organs of the body are subject to parasite attack.
3. Hookworm females lay each 100 eggs per day.
4. *Plasmodium* and *Toxoplasma* are obligate extracellular parasites of man.
5. In man, *Naegleria* species are present in the throat and nasal cavity.
6. *Naegleria* are small, free living amoeba widely distributed in the soil and fresh water.
7. *Pneumocystis carinii* causes interstitial plasma cell pneumonia.
8. Adult worm of cestode is flat, long, white or milk white in color.
9. In nematode, males are usually smaller than female.
10. Avian lice are common internal parasites of birds.

II. Complete the following statements with appropriate words.

(10 marks)

1. Pathogenesis of the parasitic diseases is a -----process.
2. In *Acanthamoeba* spp, trophozoite is 10-40 μm in -----.
3. In healthy persons, *Acanthamoeba* species causes -----.
4. In *Toxoplasma gondii*, a tissue cyst contains hundreds of -----.
5. Macrogamonts are the female ----- forms.
6. *Pneumocystis carinii* is a pathogen of uncertain ----- status.
7. Schistosomes are a group of digenetic ----- trematodes.
8. In *Schistosoma japonicum*, Cercariae is the ----- stage.
9. The adult worm of *Echinococcus granulosus* live in the ----- of carnivores.
10. All avian lice are ----- lice.

III. Answer ALL questions

(10 marks)

1. Clarify the term "anthroponoses".
2. Write short account on amoeboflagellate found in *Naegleria fowleri* parasite.
3. Explain about the microgamont.
4. Give a labelled diagram of Hydatid cyst of *E. granulosus*.
5. Mention about the vector-transmission nematodes.

IV. Answer ALL questions

(20 marks)

1. List the types of host factors depends on the complex interaction of a variety of host.
2. Define the terms "encystation and excystation".
3. Explain how do you prevent and control the hydatid disease caused by *Echinococcus* sp.
4. Briefly account on laboratory diagnosis and clinical importance in Monogeneans parasite.

V. Answer ANY THREE questions

(30 marks)

1. Discuss the statement that "The life cycle of a parasite may be simple or complex".
2. Write short account on trophozoite and cyst stages in *Acanthamoeba* species.
3. Providing relevant diagram, explain the life cycle of *Toxoplasma gondii*.
4. State about on treatment and control of *Pneumocystis carinii*.
5. Draw and label diagram different development stages of *Schistosoma* and describe nature of cercaria.
6. Mention about the development of microfilaria in mosquito.
