

Example questions for the practical exam for the subject Parasitology 1 (for the period until the end of the school year 2024/2025):

- List the definitive hosts for *Linguatula serrata* (write the correct answer).
- What is the shape of the mouthparts in *Psoroptes equi* mite (write the correct answer).
- List the number and names of ventral plates in *Ixodes ricinus* tick (write the correct answer).
- What is the shape of the capitulum in *Rhipicephalus* tick (circle the correct answer)?
 - a) hexagonal
 - b) pentagonal
 - c) square
- In *Argas persicus* tick, the capitulum (circle the correct answer):
 - a) is prominent
 - b) is not prominent
- What is the exact number of legs present in *Melophagus ovinus* adult (circle the correct answer)?
 - a) 3
 - b) 4
 - c) 6
 - d) 8
- List at least two noticeable differences between ticks (Ixodidae) and keds (*Melophagus ovinus*) (write the correct answer).
- Write what is the type of the mouthparts in *Simulium colombaschensis* female (write the correct answer)?
- Write what is the type of mouthparts in *Ctenocephalides canis* larva (circle the correct answer)?
 - a) for piercing and sucking
 - b) for chewing
 - c) vestigial (non-functional)
- Latin name for stable fly is (circle the correct answer).
 - a) *Musca autumnalis*
 - b) *Stomoxys calcitrans*
 - c) *Simulium colombaschensis*
- Which developmental and morphological forms are present in the life cycle of *Leishmania* flagellates (write the correct answer).
- Which are the definitive hosts for *Toxoplasma gondii* (write the correct answer).
- How many nuclei are present inside *Entamoeba histolytica* cyst (write the correct answer).
- Which forms of *Babesia* spp. are infective for mammalian hosts (circle the correct answer)
 - a) sporozoites
 - b) merozoites
 - c) gametocytes
- What are the asexual phases in the life cycle of *Eimeria* spp. (circle the correct answer)?
 - a) schizogony and gametogony
 - b) schizogony and sporogony

- c) sporogony and gametogony
- Which morphological forms of kinetoplastids can be found in vertebrate hosts (circle the correct answer):
 - a) amastigote and promastigote
 - b) amastigote and trypomastigote
 - c) promastigote and epimastigote
- Which animals are the definitive hosts, and which are the intermediate host in the life cycle of the species *Sarcocystis bovicanis*? (write the correct answer).
- List the morphological structures present inside the sporulated oocyst of *Eimeria* spp. (write the correct answer).
- Which developmental stage of *Paramphistomum* fluke is infective for the definitive host (write the correct answer).
- Which are the intermediate hosts for *Leishmania* spp. flagellates (write the correct answer).
- How many intermediate hosts must be included in the life cycle of the lancet liver fluke (*Dicrocoelium dendriticum*) (write the correct answer).
- What structure is present inside the eggs of the lancet liver fluke (*Dicrocoelium dendriticum*) the moment they reach the environment (write the correct answer)?
- The moment they reach the environment the eggs of common liver fluke (*Fasciola hepatica*) are (circle the correct answer):
 - a) embryonated (with larva)
 - b) non-embryonated (no larva)
- How many testicles are present in the mature proglottid of *Hymenolepis diminuta* cestode? (write the correct answer).
- What is the name of the opening present on the mature proglottid of Pseudophyllidean tapeworms which is used for expulsion of eggs (write the correct answer).
- Which are the definitive hosts and what is the location in the host for *Strongylus edentates* larvae? (write the correct answer).
- Which tapeworm has a common name "pork tapeworm"?
 - a) *Taenia solium*
 - b) *Taenia saginata*
 - c) *Taenia hydatigena*
- What is the name of the larval stage of dog tapeworm *Echinococcus granulosus* present in the intermediate hosts (write the correct answer).
- Which are the intermediate hosts in the life cycle of dog tapeworm *Echinococcus granulosus* (write the correct answer).
- Where (on the body of the host) does *Oxyuris equi* female lays the eggs (write the correct answer).
- Which form (developmental stage) does *Trichinella spiralis* female release in the host? (circle the correct answer).
 - a) egg
 - b) larva
 - c) adult

- Write the number and structure of layers present in the egg of *Toxocara canis* roundworm (write the correct answer).
- Describe the morphology of strongylid egg (write the correct answer).
- How are proglottids of tapeworms classified by their maturity (write the correct answer).
- What is the name of acanthocephalan larva (write the correct answer).
- Write the Latin name for “pork measles” – the larval stage of “pork tapeworm” (write the correct answer).
- Which larval stage of *Taenia saginata* tapeworm is present in the intermediate hosts (circle the correct answer):
 - a) *Cysticercus cellulosae*
 - b) *Cysticercus ovis*
 - c) *Cysticercus bovis*
- Write the Latin name for “fork forms” (write the correct answer).
- Describe the morphology of *Trichuris* spp. egg (write the correct answer).
- Which is the intermediate host for „*Thelazia callipaeda*“ eyeworm (write the correct answer).