Final Semester Examination For Master Degree of

Clinical Pathology

Course Title: Medical Parasitology

Date: 13-2-2017

Time Allowed: 3 hours

Total Assessment Marks: 90 MARKS



The following questions must be answered: (Draw whenever possible)

I- Enumerate and draw the infective stages of five parasites which may infect the laboratory personnel through handling stool samples. Mention the infection control measures.

(15 marks)

- II- How can you confirm the diagnosis of the following parasitological cases:- 15 marks)
 - 1) A 5-year-old Egyptian child, living near Alexandria, presented with intermittent fever, abdominal enlargement and asthenia. On physical examination, there was marked splenomegaly and wasting. The haemogram revealed anaemia (haemoglobin: 7.5 g /dl), neutropenia, and mild thrombocytopenia.
 - 2) A 45-year-old Egyptian female who was on steroid therapy for treatment of systemic lupus erythematosus, complained of recurrent abdominal pains, persistent diarrhoea, and intractable cough. Complete blood count revealed moderate eosinophilia (17%).

III- Give an account on:

(15 marks)

- 1) Laboratory diagnosis of *Trichinella spiralis* infection.
- 2) Clinical types and diagnosis of myiasis.
- 3) Life cycle of *Plasmodium falciparum* in the human host (diagram only).

((TURN OVER THE PAPER))

Chairman of Department

Prof. Dr. Sany &

IV- Give the reason(s) for:

(15 marks)

- 1) Detection of *Schistosoma* eggs in the stool examination is not always possible.
- 2) Microfilaraemia may be absent in some cases of lymphatic filariasis.
- 3) Concentration by sedimentation is better than floatation technique in the diagnosis of trematodes.
- 4) The remarkable ability of helminths to establish chronic infections.
- 5) Some cases of amoebiasis may turn fatal.

V- Compare in a table between the following:

(10 marks)

- 1) Eggs of Trichuris trichiura and Capillaria philippinensis.
- 2) Cyst of Naegleria fowleri and Acanthamoeba spp.
- 3) Oocyst of Cryptosporidium spp. and Isospora belli in fresh stool.
- 4) Eggs of Clonorchis sinensis and Paragonimus westermani.

VI- Mention the parasitological indications of the following: (10 marks)

- 1) Thick blood film.
- 2) Fine-needle aspiration biopsy.
- 3) Duodenal fluid sampling.
- 4) Skin biopsy.

VII- Choose the correct answer(s):

(10 marks)

- 1) All the following parasites could cause ectopic lesions EXCEPT:
 - a) Fasciola hepatica

b) Trichuris trichiura

c) Heterophyes heterophyes

d) Paragonimus westermani

- 2) Which of the following infections is/are associated with internal autoinfection?
 - a) Cryptosporidiosis

b) Heterophyiasis

c) Giardiasis

d) Intestinal capillariasis

- 3) Infection with which of the following can predispose to malignancy?
 - a) Trichuris trichiura

b) *Plasmodium ovale*

c) Schistosoma haematobium

d) Opisthorchis viverrini

- 4) Viability test is used for the diagnosis of which parasitic infection of the following?
 - a) Fascioliasis

b) Schistosomiasis mansoni

c) Strongyloidiasis

d) Dracunculiasis

5) Hypoproteinaemia may occur in infection with the following parasite:	
a) Capillaria phillipinensis	b) Fasciola gigantica
c) Heterophyes heterophyes	d) Hymenolepis nana
6) Trohozoites can act as the infective stage in the following parasites EXCEPT:	
a) Giardia lamblia	b) Toxoplasma gondii
c) Naegleria fowleri	d) Trichomonas vaginalis
7) Which of the following parasites reside in the epidermis: a) Larva of Toxocara canis b) Sarcoptes scabiei 	
c) Larva of Ancylostoma caninum	d) Dientamoeba fragilis
8) Lymph node aspiration can help in the diagnosis of the following:	
a) Hydatid disease	b) Kala-azar
c) Chiggers' disease	d) Malignant malaria
9) Which of the following may be associated with thrombocytopenia?	
a) Sparganosis	b) Toxocariasis
c) Visceral leishmaniasis	d) Cysticercosis
10) Morula cell is detected in the cerebrospinal fluid in case of:	
a) Cysticercosis	b) Cerebral malaria
c) African trypanosomiasis	d) Toxocariasis

Best Wishes

سيتم تحديد مواعيد الإمتحانات الشفوى و العملى بمعرفة القسم

Chairman of Department
Prof. Dr. San El