

**Examination for Third Year Malaysian Students**

**Course Title: Medical Parasitology**

**Date: 12-9-2015**

**Term: Final Examination**

**Time Allowed: 3 hours**

**Total Assessment Marks: 75 MARKS**



**Tanta University  
Faculty of Medicine  
Department of Parasitology**

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

**Marks**

**10marks**

**I) Write short notes on:**

- 1) Direct laboratory diagnosis of schistosomiasis *japonicum*.
- 2) Clinical aspects of ascariasis.
- 3) Complications of amoebiasis.

**II- Complete the following statements:**

**5 marks**

- 1- The 1<sup>st</sup> intermediate host for *Opisthorchis felineus* is (.....(1).....) while that for *Clonorchis sinensis* is (.....(2).....).
- 2- The infective stage of *Leishmania dononvani* is (.....(3).....) while that of *Trypanosoma rhodesiense* is (.....(4).....).
- 3- One of the diseases transmitted by lice is (....(5).....) while that transmitted by *Culex* is (.....(6).....).
- 4- Consumption of under cooked fish may lead to infection with (.....(7).....or.....(8).....).
- 5- Cutaneous larva migrans is caused by (.....(9).....or .....10.....).

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**III) Give the reason(s) of:**

**10marks**

- 1) Repeated treatment after two weeks is recommended in hymenolepiasis *nana*.
- 2) IgG avidity test may be an essential for the diagnosis of toxoplasmosis.
- 3) Chyluria in *Wuchereria bancrofti* infection.

**IV) Mention only two parasites that:**

**5 marks**

- 1) Can be treated by ivermectin.
- 2) Can be demonstrated by muscle biopsy.
- 3) Can be detected in urine sample.
- 4) Can cause malabsorption syndrome
- 5) May cause megaloblastic anaemia.

**V) Mention one of the parasitological uses of the following:**

**5 marks**

- 1) Mercurial ointment.
- 2) Nitazoxinide.
- 3) Baermann's technique.
- 4) Animal inoculation.
- 5) Crotamiton 10%.

**VI) Draw labeled diagrams for the following:**

**15 marks**

- 1) The erythrocytic stages of *Plasmodium vivax*.
- 2) The diagnostic stage (s) of :-
  - a) *Capillaria philippinensis*
  - b) *Fasciolopsis buski*
- 3) The infective stage (s) of:-
  - a) *Strongyloides stercoralis*.
  - b) *Trichomonas vaginalis*.

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**VII) Case(1)**

**7.5 marks**

A 31-year-old male tourist, from Russia, was brought to the out clinic by his friends with a seizure. Neurological examination demonstrated meningitis and focal neurological deficits. Blood examination revealed eosinophilia. A CT scan of the brain showed multiple small cystic and calcified lesions.

- a) What are the suspected parasitic disease and the causative adult parasite?
  - b) Discuss the different modes of infection?
  - c) What are other organs that may be involved?
  - d) Enumerate other three parasites that may affect the brain?
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**VIII) Case (2)**

**7.5 marks**

A 36-years-old male patient presented to the Dermatology Clinic with an ulcer on his face. The ulcer had sharp cut edges, raised indurated margin and scanty exudate. The lesion began several months ago as a localized nodule after returning from a camping trip in the oriental desert.

- a) What are the suspected parasitic disease and the causative parasite?
- b) Discuss the different modes of infection?
- c) How can you confirm the diagnosis by a direct laboratory method?
- d) Enumerate other three parasites that may cause skin nodule?

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**IX) Choose the correct answer:**

**10 Marks**

- 1- Chiggers' disease is caused by the adult of the following:-  
a) *Trombicula akamushi*.                      b) *Demodex folliculorum*.  
c) *Tunga penetrans*.                              d) *Osterus*.
- 2- The snail intermediate host for *Paragonimus westermani* is :  
a) *Bulimus*.                                      b) *Segmentina snail*.  
c) *Parafossarulus*.                              d) *Semisulcospira spp.*
- 3- Genito-urinary myiasis is caused by the following **EXCEPT**:-  
a) *Fannia*.                                      b) *Musca*.  
c) *Hypoderma*.                                  d) *Wohlfahrtia*.
- 4- Man can act as a blind host in the following parasite :-  
a) *Trichuris trichiura*.                      b) *Leishmania donovani*.  
c) *Fasciola hepatica*.                      d) *Echinococcus granulosus*.
- 5- Microcytic hypochromic anaemia is a manifestation of infection with:-  
a) *Trichinella spiralis*.                      b) *Heterophyes heterophyes*  
c) *Diphyllobothrium latum*.                      d) *Ancylostoma duodenale*.
- 6- Quantitative buffy coat is used for diagnosis of the following disease:-  
a) Filariasis.                                      b) Toxoplasmosis.  
c) Malaria.                                      d) Trichinellosis.
- 7- Bone marrow examination may be useful in the diagnosis of the following **EXCEPT**:-  
a) *Plasmodium falciparum*.                      b) *Leishmania donovani*.  
c) *Trypanosomes*.                                  d) *Paragonimus westermani*.
- 8- Frenkel's intradermal test is commonly used for the diagnosis of:-  
a) Espundia                                      b) Toxoplasmosis.  
c) Capillariasis *philippinensis*                      d) Schistosomiasis.
- 9- The following disease is transmitted by *Xenopsylla cheopis*:-  
a) Epidemic typhus.                              b) Plague  
c) Trench fever.                                  d) Epidemic relapsing fever.
- 10- Modified Ziehl- Neelsen stain is used for diagnosis of the following:-  
a) *Cryptosporidium species*.                      b) *Entamoeba histolytica*.  
c) *Giardia lamblia*.                                  d) Hook worms.

*Best wishes*

**Oral and practical examination will be hold in 14/9/2015  
at 9.0 a.m.**

**Chairman of Department Prof. Dr.**

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