

Examination for Master Degree in: Tropical Medicine  
Course title: Medical Microbiology & Immunology  
Date: 26 /2/ 2022  
Term: February 2022  
Time allowed: 1 hour  
Total assessment marks: 30 marks



Tanta University  
Faculty of Medicine  
Microbiology Department

**All Questions Are to Be Answered:**

- 1- Define and mention the criteria of healthcare associated infections. **(4 marks).**
- 2- Discuss the immune mechanisms against tumor. **(4 marks)**
- 3- Mention the causative agents and mode of transmission of the following diseases:
  - a- Whooping cough **(2 mark)**
  - b- Malta fever **(2 mark)**
  - c- Malignant pustule **(2 mark)**
  - d- Glandular fever **(2 mark)**
  - e- Bacillary dysentery **(2 mark)**
- 4- Discuss mode of infection and diagnosis of **hepatitis C virus** **(4 marks)**
- 5- **Pyrexia of unknown origin:** Define, list the most common causative agents **(3 marks)**
- 6- **A 55-year-old man who just arrived from Germany experiences attacks of bloody diarrhea and abdominal cramps. He states that he had a hamburger sandwich with green salad. Culture of stools on Mac Conkey's medium reveals a pure culture of rose-pink colonies. Examination of Gram-stained film from these colonies shows Gram-negative bacilli.**
  - a) what is the possible causative organism of this condition? (1 marks)
  - b) What is the virulence factor of this organism? (1 marks)
  - c) What is the most serious complication of this condition? (1mark)
  - d) Mention other types of the same species that can cause diarrhea (2 mark)

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Chairman of Department  
Prof. Mohamed Zakaria

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Oral exam: Monday 7/3/2022 At 10 am in Microbiology & Immunology Department



Master Degree of Tropical Medicine  
Course Title: Medical Parasitology  
Date: 26-2-2022  
Time Allowed: 1.5 hours  
Total Assessment Marks: 100 MARKS

Tanta University  
Faculty of Medicine  
Medical Parasitology Dep.

**Answer all the following questions:**

**I. Give an account on:**

**30 marks**

- 1- Pathogenesis and clinical aspects of hydatid disease.
- 2- Protozoa induced splenomegaly (clinical aspects and laboratory diagnosis).
- 3- Medical importance of fleas.

**II. Case Study:**

**30 marks**

A 43-year-old male came to hospital complaining of severe occipital headache, projectile vomiting, fever, myalgia, and fatigue. At the time of Hospital admission, his temperature, 39.1°C; pulse, 89 beats/min; respiratory rate, 33 breaths/min; blood pressure, 133/56 mmHg. Physical examination revealed the presence of positive meningeal irritation and Babinski signs. The patient was diagnosed with bacterial meningitis. However, no improvement was achieved after administration of empirical treatment. His brother mentioned that he had been to a water park five days before the onset of symptoms.

- 1- What can be the suspected disease and causative parasite?
- 2- What is the correct therapeutic approach for this patient?
- 3- Mention another three parasites that may cause a CNS insult.

**III. Explain why and mention three possible parasites:**

**20 marks**

- 1- Anemia may result from parasitic infections (mention their mechanism).
- 2- Opportunistic parasites are dangerous.
- 3- Fever can be precipitated by insect bites.
- 4- Respiratory complications may proceed gastrointestinal parasitic infections.

**TURN OVER THE PAGE**

20 marks

**IV. Choose ONE correct answer:**

**1. Which of the following protozoa can cause jaundice?**

- a) *Trichomonas vaginalis*
- b) *Plasmodium vivax*
- c) *Dientamoeba fragilis*
- d) *Trypanosoma gambiense*

**2. Which of the following helminths is soil transmitted?**

- a) *Diphyllobothrium latum*
- b) *Opithorchis viverrini*
- c) *Strongyloides stercoralis*
- d) *Trichinella spiralis*

**3. Which of the following protozoa can cause cardiomyopathy?**

- a) *Cryptosporidium parvum*
- b) *Trypanosoma cruzi*
- c) *Giardia lamblia*
- d) *Balantidium coli*

**4. Which of the following parasitic diseases can be diagnosed by blood film?**

- a) Cryptosporidiosis
- b) Elephantiasis
- c) Trichuriasis
- d) Scabies

**5. Which of the following diseases can be treated by ivermectin?**

- a) Diphyllobothriasis
- b) Fascioliasis
- c) Pediculosis
- d) Trypanosomiasis

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6. Which of the following insects may carry cestodal infection?

- a) *Phlebotomus morsitan*
- b) *Triatoma megistus*
- c) *Glossina palpalis*
- d) *Ctenocephalides felis*

7. Which of the following *Leishmania* species causes Chiclero's ulcer?

- a) *L. major*
- b) *L. tropica*
- c) *L. mexicana*
- d) *L. donovani*

8. Which of the following is an anti-intestinal protozoal drug?

- a) Albendazole
- b) Di-ethyl carbamazine
- c) Ketoconazole
- d) Nitazoxanide

9. Which of the following parasite can cause lymphangitis?

- a) *Dracunculus medinensis*
- b) *Leishmania donovani*
- c) *Schistosoma mansoni*
- d) *Wuchereria bancrofti*

10. Retro-infection may occur with which of the following parasites?

- a) *Enterobius vermicularis*
- b) *Strongyloides stercoralis*
- c) *Toxoplasma gondii*
- d) *Toxocara canis*

**Best wishes**

Head of Medical Parasitology Department

Prof. Howaida Ismail

