

Answer all the following questions:

I. Give an account on:

30 mark

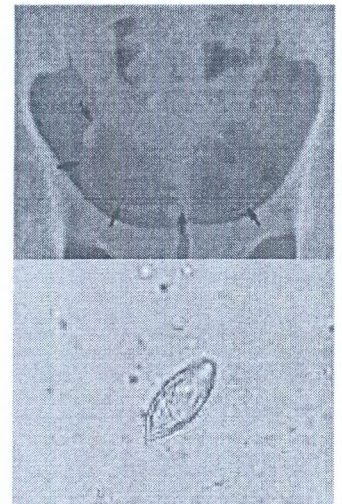
- 1- The medical importance of flies.
- 2- Clinical aspects and Complications of *Ascaris lumbricoides*.
- 3- Pathogenesis and clinical manifestations of Chagas diseases.

II. Case Study:

20 mark

A 27 year old man who joined work in sugar cane farms in Upper Egypt four month ago, presented in urology clinic with dysurea and terminal haematuria. He didn't have any past history of urinary stones. By plain X-ray and urinalysis the following was observed:

- 1- What is the suspected parasite? (genus & species)
- 2- What are the possible complications?
- 3- Mention other three parasites causing urinary lesions.



III. Explain why and mention 3 possible causative parasites for:

30 marks

- 1- Trace elements & vitamins deficiencies are possibly precipitated by parasitic infections.
- 2- Some parasitic infections fall under the category of nosocomial infections.
- 3- Liver is one of the commonest organs that harbor parasitic lesions.
- 4- There are many types of skin lesions triggered after exposure to arthropods.

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IV. Choose ONE correct answer:

20 marks

1. Which of the following protozoa can cause generalized lymphadenopathy?
 - a) *Trichomonas vaginalis*
 - b) *Trichuris trichiura*
 - c) *Toxoplasma gondii*
 - d) *Trichinella spiralis*

2. Which of the following helminths can cause disseminated entero-colitis?
 - a) *Diphyllobothrium latum*
 - b) *Opithorchis viverrini*
 - c) *Strongyloides stercoralis*
 - d) *Trichinella spiralis*

3. Which of the following protozoa can cause encephalopathy?
 - a) *Leishmania donovani*
 - b) *Entamoeba dispar*
 - c) *Naegleria fowleri*
 - d) *Balantidium coli*

4. Which of the following is considered an occupational disease?
 - a) hydatidosis
 - b) visceral larva migrans
 - c) filariasis
 - d) malaria

5. Ivermectin is used in the treatment of:
 - a) scabies
 - b) Kala Azar
 - c) Congenital toxoplasmosis
 - d) Chagas disease

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6. Which of the following is NOT a blood sucking arthropod?

- a) *Phlebotomus morsitans*
- b) *Triatoma megistus*
- c) *dermatophagoides*
- d) *Pulex irritans*

7. Which of the following *Leishmania* species causes hepatomegaly?

- a) *L. maor*
- b) *L. tropica*
- c) *L. mexicana*
- d) *L. infantum*

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

- a) Permethrin
- b) Suramine
- c) Di-ethyl carbamazine
- d) Piperazine

9. Which of the following parasites can cause steatorrhoea?

- a) *Cryptosporidium parvum*
- b) Hook worm
- c) *Giardia lamblia*
- d) Pin worm

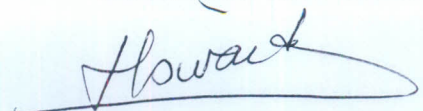
10. Anchovy sauce liver abscess may occur after:

- a) Hydatid disease
- b) Amoebiasis
- c) Toxoplasmosis
- d) Schistosomiasis *mansoni*

Best wishes

Head of Medical Parasitology Department

Prof. Howaida Ismail



Examination for Diploma Degree in: Tropical Medicine

Course title: Medical Microbiology & Immunology

Date: 24 /8 / 2021

Term: August 2021

Time allowed: 1 hour

Total assessment marks: 30 marks



Tanta University

Faculty of Medicine

Microbiology Department

All Questions Are to Be Answered:

- 1- Define bacterial virulence and explain the role of different factors affecting it. **(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- Pseudomembranous colitis **(2 mark)**
 - b- Botulism **(2 mark)**
 - c- Malignant pustule **(2 mark)**
 - d- Toxic shock syndrome **(2 mark)**
 - e- Bacillary dysentery **(2 mark)**
- 4- Discuss mode of infection and diagnosis of **human immune deficiency virus (HIV)** **(4 marks)**
- 5- **Zoonotic diseases:** 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? (1 mark)
 - d) Mention other types of the same species that can cause diarrhoea (2 mark)

Chairman of Department
Prof. Mohamed Zakaria

Oral exam: Monday 30/8/2021 At 10 am in Microbiology & Immunology Department