

Final Examination For 1<sup>st</sup> Part for Doctorate degree of  
Parasitology

Course Title: Medical Parasitology (9001)

Date: 21 - 3- 2021

Time Allowed: 3 hours

Total Assessment Marks: 90 MARKS



Tanta University  
Faculty of Medicine  
Department of  
Parasitology

**General instructions:**

**Exam is six questions in three pages.**

**ALL questions must be answered.**

**Don't use abbreviations unless explained.**

I- Visceral leishmaniasis was encountered in some areas in Egypt. As a professional parasitologist you are asked to construct a control program towards it. What are the steps that you should follow? {10 marks}

II- Give short notes on: {30 marks}

- 1) How to reduce the transmission of zoonotic diseases.
- 2) Seasonal fluctuations in the transmission of schistosomiasis.
- 3) Neglected tropical diseases.
- 4) Mechanisms of drug resistance in parasitic infections.
- 5) The immune rhythms.

III- Explain why: {15 marks}

- 1) Deforestation has a marked effect on the prevalence of parasitic diseases.
- 2) Mutation is very important for evolution.
- 3) Sedimentation techniques are superior to floatation methods for diagnosis of parasites.

IV- Compare between the followings: {10 marks}

- 1) Apoptosis and necrosis
- 2) Permissive and non-permissive hosts

V- Define with examples:

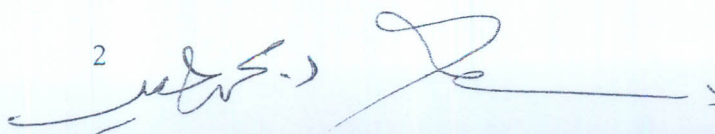
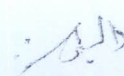
{15 marks}

- 1) Biotherapy
- 2) Paleohelminthology
- 3) Paratenic host (transport host)

VI- Choose the correct answer:

{10 marks}

- 1) Who discovered the mode of infection of *Ancylostoma*?
  - a) Patrick Manson
  - b) Robert Leiper
  - c) Arthur Looss
  - d) David Bruce
  
- 2) Which of the following is a major player in apoptosis?
  - a) MIP-1 $\alpha$
  - b) TNF
  - c) TGF- $\beta$
  - d) RANTES
  
- 3) Giemsa staining of thick and thin blood films requires which of the following?
  - a) Prior fixation of thin film
  - b) Prior fixation of the thick film
  - c) Prior fixation of both types
  - d) No prior fixation of either film
  
- 4) Which of the following is not considered as a parasite membrane ion-channel?
  - a) Excitatory nicotinic acetylcholine receptor channel
  - b) Inhibitory gamma aminobutyric acid receptor channel
  - c) Inhibitory haem dimerization receptor channel
  - d) Glutamate gated chloride channel
  
- 5) Miltefosine is considered as a promising drug in treatment of which of the following?
  - a) *Toxoplasma gondii*
  - b) *Schistosoma* spp
  - c) *Malaria* spp
  - d) *Dirofilaria immitis*

2  

- 6) Which of the following statements are correct in relation to burden of disease?
- a) Disability-adjusted life years (DALYs) represent the sum of years of life lost.
  - b) The global burden of disease is an estimate of the morbidity by age, sex and region.
  - c) One DALY is equal to one year of healthy life lost.
  - d) DALYs decrease the validity of comparison of the burden of parasitic infections between countries over time.
- 
- 7) Maggots living on a dead organism is considered which of the following relationships?
- a) Inquilinism
  - b) Metabiosis
  - c) Microbiota
  - d) Phoresy
- 8) In constructing control program for the parasitic diseases, continued intervention measures are required in which of the following?
- a) Elimination
  - b) Eradication
  - c) Extinction
  - d) B&C
- 9) Knott concentration technique is used for diagnosis of which of the following?
- a) *Naegleria fowleri*
  - b) *Leishmania donovani*
  - c) *Trypanosomes*
  - d) *Wuchereria bancrofti*
- 10) Which of the following parasites is an example for saprometazoonosis?
- a) Fascioliasis
  - b) Filariasis
  - c) Leishmaniasis
  - d) Toxoplasmosis

BEST WISHES

Chairman of Department  
Prof. Dr. Howaida Ismail

