



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR:

BMLS

AML4203 : MEDICAL PROTOZOLOGY

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

DATE: 10 Dec 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **TWO** Section(s). Attempt ALL questions.

Circle the correct answer in section A.

1. The pathogen transmitted by Triatomin bug in South America is:-
 - a. Leishmamia
 - b. L.D Body
 - c. Diplytobothrium latum
 - d. Tripanosoma B. crurzi
 - e. Ispundia

2. Leshmamia Ethiopica is transmitted by:-
 - a. Sand fly
 - b. House fly
 - c. Tsetse fly
 - d. Reduviid bugs
 - e. Culicoides

3. Toxoplasma gondii is acquired by:-
 - a. Eating undercooked fish
 - b. Ingesting oocysts in the feces of felins
 - c. Ingesting under cooked chicken
 - d. By drinking fresh juices
 - e. Sexual intercourse
4. Babesia microti Trophozoites are found in:-
 - a. Red blood cells of the injected animals
 - b. White blood cells of the injected animals
 - c. In monocytes
 - d. Tissues
 - e. Platelets
5. Romanas sign is a clinical feature associated with one of the following pathogens
 - a. Leishmamia donovam
 - b. Onchocerciasis
 - c. Chaga diseas
 - d. Trypanosome b. gambiense
 - e. Onchocerciasis
6. The pathological condition called amoeboma is characteristics for:-
 - a. Chagas disease
 - b. Entamoeba histolytica
 - c. Leishmania
 - d. Naegleria fowleri
 - e. Balntidium coli
7. The most pathogemic plasmodium is:-
 - a. Plasmodium vivax
 - b. Plasmodium ovale
 - c. Plasmodium faleiparum

- d. *Plasmodium malariae*
 - e. *Plasmodium knowlesi*
8. The characteristic feature for the diagnosis of plasmodium falciparum is one of the following:-
- a. Multiple infection
 - b. Distorted cytoplasm
 - c. The presence of scheufners dots
 - d. Band form
 - e. Red blood cell crenation
9. The cats can be infected by Toxoplasmosis by feeding on:-
- a. Infected rats
 - b. Infected chicken
 - c. Infected beef
 - d. Infected mutton.
 - e. Infected rats with tissue cysts
10. The transmission of Naeglesia towleri is associated with:-
- a. Dirty contaminated swimming pools
 - b. Unchlorinated water
 - c. Contaminated salads
 - d. Infected beef
 - e. Ingesting infected beef
11. Naegleria fowleri pathology is specifically in :-
- a. The gut
 - b. The small intestines
 - c. The brain
 - d. The liver
 - e. In the stomach
12. The following protozoa do not have cysts:-
- a. *Entamoeba coli*
 - b. *Trichomonas tenax*
 - c. *Giardia lamblia*

- d. *Entamoeba hartmani*
- e. *Iodamoeba bustchili*

13. The urogenital protozoa include:-

- a. *Trichomona tenax*
- b. *Trichomonas vaginalis*
- c. *Trychomonas buccalis*
- d. *Trichomonans auspicus*
- e. *Entamoeba histolytica*

14. The pathogen causing mega colon is one of the following:-

- a. Trypanosome b. gambiense
- b. Trypanosome b. rhodesiense
- c. Trypanosoma b. bruzi
- d. Trypanosome b. cruzi
- e. Entamoeba coli

15. The most pathogenic with rapid disease progression is:-

- a. T. b rhodesiense
- b. T.b gambiense
- c. T.b bruzi
- d. T.b cruzi
- e. Leishmania

16. The Flagellate which parasitizes the white blood cells is:-

- a. *T. b cruzi*
- b. *T. b gamiense*
- c. *T. b rhodesiense*
- d. *T. b bruzi*
- e. *Trichomonas vaginalis*

17. The leishmania pathogen that causes lesions and metastasizes mucosal tissue is:-

- a. Leishmania ethiopica
- b. Leishmania donovani
- c. Leishmania tropica

- d. Mucocutaneous leishmania
- e. Infantile Leishmaniasis

18. The Asian tiger mosquito transmits one of the following viruses.

- a. West Nile virus
- b. Chikungunya virus
- c. Hiv virus
- d. Dengue virus
- e. Malaria

19. The infective stage of malaria parasite to mosquito vector is:-

- a. Gametocytes
- b. Schizonts
- c. Merozoites
- d. Sporozoites
- e. Hypnozoites

20. The male gametocyte when stained with Giemsa stain appears:-

- a. Blue
- b. Pink
- c. Black
- d. Red
- e. Black

21. The purpose of making both thick and thin smears for malaria parasite diagnosis is:-

- a. Detection and identification species
- b. Detection and reporting
- c. Make it easy to read
- d. Controlling diagnosis
- e. Proper planning

22. Entamoeba histocytica's trophozoite primary station is:-

- a. Colon
- b. Small intestine
- c. Brain
- d. Lungs
- e. Liver

23. The number of nuclei of Entamoeba coli is

- a. 4
- b. 2
- c. 1
- d. 8
- e. Upto 10

24. The best method of controlling intestinal protozoa include:-

- a. Wash salads properly before eating
- b. Wash hands after meals
- c. Wash plates before putting food
- d. Drink clean water.
- e. Prevent faecal contact

25. The amoeba whose cytoplasm carries RBC is

- a. Entamoeba coli
- b. Naegleria fowbri
- c. Entamoeba histolytica
- d. Entamoeba dispar
- e. Entamoeba hartmani

26. The Diagnosis of *Balantidium coli* relies on:-

- a. The presence of a nucleus
- b. Dimorphism of the nucleus
- c. Presence of cilia
- d. Presence of cytopigie
- e. Golgi body

27. Splenomegaly is a symptom of:-

- a. Kala- azzar
- b. Ispundia
- c. Culaneaus Leishnamasis
- d. *Leishmania tropica*.
- e. Infantile leishmaniasis

28. The infective stage of trypanosome is:-

- a. Metacyclic trypomastigite
- b. An amastigote
- c. Promastigote
- d. Trypomastigote
- e. LD body

29. The promastigote form of *Leishmania* is formed in:-

- a. The vector
- b. The Leukocytes
- c. The RBC
- d. The human tissue
- e. The animal host

30. The control method against malaria parasite includes:-

- a. Integrated strategy
- b. Use of pyrethrocides products
- c. Biological by use of predacious organisms
- d. Physical controls
- e. Treat the infected

SECTION B

1. Describe the life cycle of malaria parasite both human and vector stages -----20 marks

2. a) Discuss the laboratory technique for the formal ether concentration method---15 marks

b) Explain the importance of every step-----5 marks