



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

CERTIFICATE IN COMMUNITY HEALTH AND HIV MANAGEMENT
(CCH 13)

AML 1106 MEDICAL PARASITOLOGY

SUPPLEMENTARY /SPECIAL : EXAMINATIONS

SERIES: MARCH 2014

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of *section A and B* .

Answer ALL question

This paper consists of 8 PRINTED pages

1. The stages of *Toxoplasma gondii* capable of causing acquired infection are
 - a) Oocyst and ova
 - b) Oocyst, tachyzoites and Bradyzoites
 - c) Tachysoites and larva
 - d) Sporoblast and oocyst

2. *Toxoplasma gondii* has ____ sporozoites
 - a) 2
 - b) 4
 - c) 8
 - d) 16

3. *Trypanosoma cruzi* is transmitted by _____ to cause chaga's disease
 - a) Kissing bugs
 - b) Bed bugs
 - c) Lice
 - d) Tickes

4. *Trypanosoma gambiense* causes
 - a) Rhodiense sleeping sickness
 - b) Acute tryonosomiasis
 - c) Gambian sleeping sickness
 - d) American trypanosomiasis

5. *Leishmania braziliensis* causes
 - a) Visceral leishmaniasis
 - b) Espundia
 - c) Cutaneous leishmaniasis
 - d) Kalaazar

6. The following is a microphage
 - a) Monocyte
 - b) Histocytes
 - c) Neumophic
 - d) Microglia

7. The following are Biological methods of preventing / controlling malaria except:-
 - a) Bacteria eg. *Bacillus sphaericus*
 - b) Fish (*Tilapia*)
 - c) Fungi eg *lagenidium giganteum*
 - d) Nematode eg *Romanomermis culicivorax*

8. Malaria caused by *p.falciparum* is
 - a) Malignant malaria
 - b) Benign tertiary malaria
 - c) Quarta malaria
 - d) Semi-quartan malaria

9. The following are characteristics of *Balantidium coli*: except :
- Reproduce by conjugation
 - Locomotion is by pseudopodia
 - Have both trophozoites & cystic stages
 - They move by means of cilia
10. The following is not a way through which *Trichomonas vaginalis* is acquired
- Sexual intercourse
 - Direct contact with infected female
 - Birth canal of infected mothers during child birth
 - Kissing
11. Lemon shaped cyst is characteristic of
- Chilomastix mastic
 - Enteromonas hominis*
 - Trichomonas vaginalis*
 - Dientamoeba fragilis*
12. The following are haemoflagellates
- Leishmania* and *T. Vaginalis*
 - Trypanosome and *T. Tenax*
 - Leishmania* and trypanosome,
 - Giardia lamblia* and *Trichomonas vaginalis*
13. Which of the following lack cystic stage
- Entamoeba gingivalis*
 - Endolimax nana*
 - Entamoeba coli*
 - Entamoeba coli*
14. Amoeba reproduce by
- Simple binary fission
 - Conjugation
 - Syngamy
 - Internal budding
15. The container used in stool collection for parasitological examination is
- Beaker
 - Universal bottle
 - Polypot
 - Stool container
16. Lanect fluke is
- Heterophyes heterophyes*
 - Dicrocoelium dendriticum*
 - Schistosomes
 - Liver fluke

17. The eggs of the following have an rudimentary spine
- Fasciola hepatica
 - Heterophyes heterophyes
 - Schistosoma mansoni
 - Schistosoma japonicum
18. The habitat of Dicrocoelium dendriticum is
- Intestine
 - Blood
 - Liver
 - Lungs
19. All trematodes lay operculated eggs except
- Heterophyes heterophyes
 - Schistosoma
 - Fasciola hepatica
 - Fasciolopsis buski
20. Which is not part of an adult cestode
- Scolex
 - Coracidium
 - Neck
 - Strobila
21. The eggs of _____ are D shaped
- Trichinella spiralis
 - Trichuris trichiura
 - Enterobius vermicularis
 - Strongyloides stercoralis
22. Penetration is a mode of infection with
- Necator americanus
 - Ascaris lumbricoides
 - Trichinella spiralis
 - Enterobius vermicularis
23. Which nematode is facultative
- Ascaris lumbricoides
 - Trichinella spiralis
 - Strongyloides stercoralis
 - Hookworms
24. The longest tape worm is
- Dypilidium carinum
 - Diphycobotrium latum
 - Taenia Solium
 - Taenia saginata

25. Innoculation is a mode of infection with
- Wuchereria bancrofti
 - Necator americanus
 - Dracanculus medinensis
 - Stringyloides stercoralis
26. Loa Loa has the following periodicity
- Nocturnal
 - Diurnal
 - Non periodic
 - Subperiodic
27. Scrotal sac hydrocaele is associated with
- Wuchereria bancrofti
 - Loa Loa
 - Onchocerca Vulvulus
 - Mansonella ozzardi
28. Which paratiste is associated with the eye
- Wuchereria bancrofti
 - Brugia malayi
 - Onchocerca vulvulus
 - Dracunculus nedinensis
29. Destroying cyclopes by using organophosphrus chemicals is a control measure of
- Medium worm
 - Loa Loa
 - Dyphilobothrium latum
 - Dipilidium caninum
30. Which parasite is unsheathed
- Loa Loa
 - Onchocerca Vulvulus
 - Wuchereria bancrofti
 - Brugia malayi
31. The family Taeniidea does not have the genus
- Taenia
 - Multiceps
 - Biphylobomrium
 - Echinococcus
32. The following do not require an intermediate host
- Ascaris Lumbricoides
 - Trichinella spiralic
 - Medina Worm
 - Wuchereria bancrofti
33. The following are oviparous except
- Trichuris trichiura

- b) *Trichinella spiralis*
 - c) *Ascaris lumbricoides*
 - d) Hookworms
34. Loeffler's syndrome is associated with the parasite
- a) *Ascaris lumbricoides*
 - b) *Strongyloides stercoralis*
 - c) *Necator americanus*
 - d) *Ancylostoma duodenale*
35. Painful and tender muscle is caused by the infection with the following parasite
- a) *Trichuris trichiura*
 - b) *Trichinella spiralis*
 - c) *Dracunculus medinensis*
 - d) *Strongyloides stercoralis*
36. Visceral larva migrans is caused by
- a) *Ascaris* of dogs and cats
 - b) Hookworms of dogs and cats
 - c) *Ancylostoma caninum*
 - d) *Necator americanus*
37. Proper cooking of pork is a preventive measure with the infection of
- a) *Taenia solium*
 - b) *Taenia saginata*
 - c) *Trichuris trichiura*
 - d) *Trichinella trichiura*
38. Intestinal obstruction is caused by the parasite
- a) *Ascaris lumbricoides*
 - b) *Strongyloides stercoralis*
 - c) *Entamoeba histolytica*
 - d) *Enterobius vermicularis*
39. The following parasite is pathogenic
- a) Male *strongyloides stercoralis*
 - b) Female *strongyloides stercoralis*
 - c) Male *enterobius vermicularis*
 - d) Female *necator americanus*
40. Which parasite has cutting plates
- a) *Strongyloides stercoralis*
 - b) Hookworms
 - c) *Ancylostoma duodenale*
 - d) *Necator americanus*

SECTION B Essay

1. Outline 10 parasitological samples used in the diagnosis of parasites giving example **(20 marks)**
2. Outline the modes of infection of parasite and give examples **(20 marks)**
3. (i) Describe the life cycle of *Ascaris lumbricoides* **(10 marks)**
(ii) State the control measures against *Ascaris* **(10 marks)**