



## **BRAINWARE UNIVERSITY**

## Term End Examination 2022 Programme – B.Sc.(MLT)-2019/B.Sc.(MLT)-2020 Course Name – Medical Parasitology & Entomology Course Code - BMLT501 ( Semester V )

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) State the correct definition of parasite:
  - a) A micro-organism that invades host cells and replicates inside them
  - c) An organism that lives in or on another living body to benefit itself
- (ii) State the correct definition of endoparasite:
  - a) Lives on the surface of the host organism
  - c) Lives under the body cavity of the host organism
- (iii) Identify the causative agent of Malaria
  - a) Entamoeba Histolytica
  - c) Clostridum

- b) Leishmania
- d) Plasmodium

organism

organism

- (iv) What is the location of sexual life cycle of plasmodium
  - a) The gut of the mosquito

b) RBC

c) Liver tissue

d) The salivary gland of the mosquito

b) An organism that lives in or on another

d) An organism that lives in or on another

living body to benefit the host

living body without any benefit

b) Lives in the body cavities of the host

d) Lives side of the body cavity of the host

- (v) All the statements regarding Ascaris lumbricoides is correct except:
  - a) Ascaris lumbricoides is one of the largest nematode
  - \ D ... .

- b) Ascaris lumbricoides can cause pneumonia
- c) Both dogs and cats are intermediate hosts of Ascaris lumbricoides
- d) A lumbricoides is transmitted by ingestion of eggs
- (vi) Example of a drug used to prevent Malaria is
  - a) Mebendazole

b) Chloroquine

c) Inactivated vaccine

- d) Zinc table
- (vii) The following is true with respect to Chagas disease:
  - a) It is caused by Trypanosoma brucei complex
- b) Human acquires the disease via the bites of infected sandflies
- c) It causes megasyndrome in patients with
- d) The most common clinical manifestation is

prolonged illness (viii) The following is true with respect to intestinal r	Winterbottoms sign nematodes of human:				
<ul> <li>a) Enterobius vermicularis is not a soil- transmitted helminth</li> </ul>	b) Strongyloides stercoralis is the smallest intestinal nematode				
<ul> <li>c) Capillaria philippinensis lives in the lumen</li> <li>of the small intestine</li> <li>(ix) Select the true option regarding Schistosoma sp</li> </ul>	Trichinella spiralis is oviparous				
a) The diagnostic stage is the egg b) The infective stage to human is miracion c) Albendazole is the drug of choice for the treatment of its infection cooked meat x) Select the one which causes cutaneous larva migrans:					
<ul><li>a) Ancylostoma caninum</li><li>c) Strongyloides stercoralis</li><li>(xi) Choose the parasitic disease that is responsible patients:</li></ul>	<ul><li>b) Ancylostoma duodenale</li><li>d) Necator americanus</li><li>for intracerebral lesions in AIDS</li></ul>				
<ul><li>a) Amoebiasis</li><li>c) Toxoplasmosis</li><li>(xii) Choose the parasite that can cause ocular lesion</li></ul>	b) Cystoisosporiasis d) Cryptosporidiosis n:				
a) Naegleria fowleri b) Toxocara canis c) Wuchereria bancrofti d) others (xiii) Report the correct option with respect to Blackwater fever					
<ul><li>a) occurs in patients infected with</li><li>Plasmodium falciparum</li><li>c) is a serious syndrome in patients with</li></ul>	<ul><li>b) occurs in patients infected with quar malaria</li><li>d) Other</li></ul>	tan			
G6PD deficiency (xiv) Write the name of the parasite that can infect h					
<ul><li>a) Toxoplasma gondii</li><li>c) Taenia saginata</li><li>(xv) Identify the clinical feature of late lymphatic fila</li></ul>	b) Wuchereria bancrofti d) Clonorchis sinensis				
<ul><li>a) Haemoptysis</li><li>c) Hydrocele</li></ul>	b) Haematemesis d) Haematuria				
<b>Grou</b> (Short Answer Ty	=	3 x 5=15			
<ol> <li>Write about the procedure of iodine preparation for stool examination</li> <li>Comment on the nocturnal periodicity of Wuchereria bancrofti</li> <li>Explain the principle of QBC technique as required for the diagnosis of Malaria</li> <li>Establish the difference between thin and thick smear of blood as required in diagnosis of Malaria</li> <li>Distinguish between the gametocytes of P.vivax and P. falciparum</li></ol>					
bancrofti					
<b>Grou</b> (Long Answer Ty		5 x 6=30			
<ol> <li>Compare and contrast between RT-PCR &amp; pLDH technique for detection of malarial parasite</li> </ol>					
<ul> <li>8. Define Endoparasite and Ectoparasite with suitable</li> <li>9. Describe the life cycle of Ascaris lumbricoides</li> <li>10. Explain the three stages experienced by a patient</li> <li>11. Illustrate the zinc sulphate method for stool examinates</li> <li>12. Explain the detailed process and observation of the</li> </ul>	t during malarial fever nination	(5) (5) (5) (5)			
12. Explain the detailed process and observation of t	ne god technique required for the	(5)			

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OR

Explain the process of preparation of thick & thin blood smear for detection of malarial (5) parasite