



## **BRAINWARE UNIVERSITY**

## Term End Examination 2023-2024 Programme – DMLT-2022 Course Name – Parasitology & Animal Care Course Code - DMLT402 ( Semester IV )

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

- Choose the correct alternative from the following :
- (i) Select the parasite which causes malaria in humans
  - a) Schistosoma mansoni

b) Taenia solium

c) Plasmodium falciparum

- d) Enterobius vermicularis
- (ii) Select the type of host where parasite passes its sexual life cycle
  - a) Definite host

b) Indefinite host

c) Intermediate host

- d) Neutral host
- (iii) Select the organism which transmit parasite from one host to another host
  - a) Pathogen

b) Vector

c) Commensal

- d) Non-pathogen
- (iv) Select Number of flagella present in giardia lambia
  - a) One pair

b) Two pair

c) Three pair

- d) Four pair
- (v) Choose the most common organ involved in extraintestinal amoebiasis
  - a) Liver

b) Lung

c) Spleen

- d) Brain
- (vi) Select the color of the cytoplasm of malaria parasite after staining with Giemsa
  - a) Dark red colour

b) Dark purple

c) Blue colour

- d) White red
- (vii) Select the procedure where Nuclei of amoeboic cysts is well seen
  - a) Wet mount

b) Iodine

c) Saline preparation

- d) By using fixatives
- (viii) Choose the stain used for nuclear stain in Entamoeba histolytica
  - a) Buffered methylene blue

b) Eosin

c) methylene

- d) All of these
- (ix) Select the stage of the malaria life cycle occurs in the liver

(×	<ul><li>a) Sporozoite</li><li>c) Trophozoite</li><li>In which part of the Anopheles mosquito does</li></ul>	b) Merozoite d) Gametocyte the sexual reproduction of the malaria	
(xi	parasite occur  a) Gut c) Wings After adding the saline solution to the blood sa	b) Salivary glands d) Legs mple for malaria detection Select the	
(×ii)	next step a) Centrifugation c) Microscopic examination Choose the diagnostic test typically used to det humans		
(xiii	<ul><li>a) Stool examination</li><li>c) Urine test</li><li>Identify the stage of Ascaris lumbricoides that i severe symptoms in humans</li></ul>	<ul><li>b) Blood test</li><li>d) Imaging studies</li><li>s responsible for causing the most</li></ul>	
(xiv)	a) Adult male c) Larva Indicate the step that is not part of the saline p examination of stool samples	b) Adult female d) Egg reparation technique for microscopic	
	a) Mixing a small amount of stool with normal s	b) Filtering the mixture through a gauze	e pad
	c) Placing a drop of the filtrate on a microscope slide	d) Heating the filtrate to a high tempera	ature
(xv)	Which organ does Ascaris migrate through duri	ng its life cycle?	
	a) Liver c) Heart	b) Lungs d) Kidneys	
	<b>Gro</b> u (Short Answer T	•	3 x 5=15
	(SHOTE AHSWELL)	ype Questionsy	5 X 5 15
	mpare and contrast between excystation and e tamoeba	ncystation stages in the life cycle of	(3)
<ul><li>3. Define the importance of medical parasitology</li><li>4. Define the ectoparasite and endoparasite</li></ul>			(3) (3)
<ul> <li>5. Mention the name of sources of exposure to parasitic infection</li> <li>6. Explain the Nocturnal periodicity of wuchereria and analyze its role in the spread of filariae</li> <li>OR</li> </ul>			(3)
Exp	plain the importance of in vivo conditions in a r		(3)
	Grou	ıр-C	
	(Long Answer Ty	/pe Questions)	5 x 6=30
8. Co	ompare and contrast the parasite and helminth ompare and contrast the life cycle of plasmodit fectiveness and different stages form		(5) (5)
10. Ho	ustrate the life cycle of Entamoeba histolytica ow do staining techniques evaluate the quantif mples	ication of blood parasites in clinical	(5) (5)
11. Illu pa	ustrate the process and principles behind the crasitic infections, including the types of sample	-	(5)

12.	Compare and contrast between the trophozoite and cyst stages of Giardia lamblia in terms of their morphology, metabolism, infectivity, and susceptibility to disinfectants  OR	(5)
	Explain the advantages and limitations of the saline preparation technique for diagnosing parasitic infections	(5)
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