

REV-01
BSZ/01/05

2023-12

**B.Sc. ZOOLOGY
FIFTH SEMESTER (REPEAT)
PARASITOLOGY
BSZ-504**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

Marks: 20

(Objective)

Choose the correct answer from the following:

$1 \times 20 = 20$

- Juxtenuclear kinetoplast is found in:
 - Amastigote
 - Promastigote
 - Epimastigote
 - Trypomastigote
- The longest undulating membrane is found:
 - Amastigote
 - Promastigote
 - Epimastigote
 - Trypomastigote
- Excystation of *G. lamblia* occurs in:
 - Stomach and duodenum
 - Stomach and intestine
 - Lungs
 - Liver and intestine
- What is present on the surface of Giardia to bind to the receptors on enterocytes?
 - Pectins
 - Lectins
 - Secretin
 - Troponin
- Trophozoites of Entamoeba are actively motile with the help of a:
 - Cilia
 - Flagella
 - Pseudopodia
 - None of the above
- The trypanosome was first discovered in the year:
 - 1901
 - 1911
 - 1902
 - 1922
- The parasites that enter the external openings of the body of the host are called:
 - Facultative parasites
 - Obligate parasites
 - Endo parasites
 - Meso parasites
- Hookworms are an example of:
 - Exoparasites
 - Obligate parasites
 - Endo parasites
 - Meso parasites
- The trophozoite of Giardia measures _____ in length.
 - 9-21 μm
 - 15-30 μm
 - 30-42 μm
 - 42-60 μm
- Which of the following was a zoonosis but now is a human only disease?
 - Ebola
 - Salmonellosis
 - HIV
 - None of the above

11. Syncytial epidermis is the characteristic feature of which of the following organism?
- | | |
|-------------------|---------------------|
| a. <i>Ascaris</i> | b. <i>Taenia</i> |
| c. <i>Hydra</i> | d. <i>Pheretima</i> |
12. Which of the following helminth enters the body of a man through the skin of his feet if he walks barefoot in the contaminated soil?
- | | |
|-----------------------|-----------------------|
| a. <i>Ascaris</i> | b. <i>Ancylostoma</i> |
| c. <i>Schistosoma</i> | d. <i>Wuchereria</i> |
13. How is tapeworm attached to the intestinal wall of humans?
- | | |
|----------------------|-------------------|
| a. Hooks and suckers | b. Rostellum only |
| c. Hooks only | d. Suckers only |
14. Which of the following diseases are caused by *Taenia solium*?
- | | |
|--------------------------------|-----------------------|
| a. Only Taeniasis | b. Only Cysticercosis |
| c. Taeniasis and Cysticercosis | d. None of the above |
15. How many proglottids are present in *Taenia solium*?
- | | |
|--------------|--------------|
| a. 100-500 | b. 500-1000 |
| c. 1000-2000 | d. 2000-5000 |
16. The stage of life history of the liver fluke when it infects the primary host is:
- | | |
|--------------|----------------|
| a. Redia | b. Cercaria |
| c. Sporocyst | d. Cysticercus |
17. The term "monogenetic" is used to _____ and specifically refers to _____.
- | | |
|--|--|
| a. Describe how parasites reproduce/ the presence of both types of sex organs in the same individual | b. Designate an Order of flukes/ the presence of both types of sex organs in the same individual |
| c. Describe how parasites reproduce/ flukes with separate sexes (schistosomes) | d. Describe how parasites reproduce/ flukes that only reproduce sexually |
18. How is *Ancylostoma duodenale* transmitted?
- | | |
|--|---------------------------|
| a. Through contaminated food and water | b. Through sexual contact |
| c. Through respiratory droplets | d. Through mosquito bites |
19. In *Ascaris*, the period of incubation outside the human body is _____.
- | | |
|----------------------|---------------|
| a. More than 30 days | b. 15-30 days |
| c. 8-14 days | d. 4-8 days |
20. *Wuchereria bancrofti* is transmitted by:
- | | |
|----------------|-------------|
| a. Tse-Tse fly | b. Sand fly |
| c. Anopheles | d. Culex |

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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|---|--------|
| 1. Write the General Characteristics and Classification of Helminths. | 5+5=10 |
| 2. Write down the detailed life cycle of <i>Entamoeba histolytica</i> with necessary diagrams. | 10 |
| 3. Write down the detailed life cycle of <i>Trypanosoma gambiense</i> with necessary diagrams. | 10 |
| 4. Write down the general characters of Hemoflagellates with the different morphological classes. | 5+5=10 |
| 5. Describe the morphology of <i>Trypanosoma gambiense</i> with necessary diagrams. | 10 |
| 6. Describe the morphology & pathogenesis of <i>Taenia solium</i> . Provide necessary diagrams. | 10 |
| 7. Explain the detailed Life cycle of <i>Fasciola hepatica</i> with diagrams. | 10 |
| 8. Elaborate the morphology and life cycle of <i>Wuchereria bancrofti</i> . | 10 |

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