

Total Pages : 8

H-6542

M.Sc. (Semester-IV) Examination, July 2022

ZOOLOGY

(Biology of Parasitism)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 28

Note : Question paper is divided into four section. Attempt questions of all the sections as per direction. Distribution of marks is given in each section.

Section - A

(Objective Type questions)

1. Attempt all the questions. Each question carry **1** mark.

[10x1=10]

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(1)

[P.T.O.]

- (i) The infective stage of Plasmodium is :
- (a) Trophozoite
 - (b) OO Kinetin
 - (c) Sporozoite
 - (d) Schizont
- (ii) Plasmodium belongs to class sporozoa which is characterised by :
- (a) Pseudopodia
 - (b) Myonemes
 - (c) No distinct locomotory organelles
 - (d) Flagella
- (iii) The infective stage of Trypanosoma is :
- (a) Long and slender form
 - (b) Crithidial form
 - (c) Meta cyclic form
 - (d) Intermediate form

- (iv) Trypanosoma is transmitted by :
- (a) Contamination
 - (b) Inoculation
 - (c) Contagious
 - (d) Touch
- (v) Osmoregulatory mechanism absent in :
- (a) Paramecium
 - (b) Amoeba
 - (c) Euglena
 - (d) Trypanosoma
- (vi) In Fasciola miracidium develops into the next stage inside :
- (a) Bulimes
 - (b) Lymnea truncatula
 - (c) Pila globosa
 - (d) Planorbis

(vii) Liver fluke is not affected by enzymes of host because of :

- (a) Cuticle
- (b) Suckers
- (c) Epidermis
- (d) Hooks

(viii) The final moult in Juvenile of Ascaris occurs in :

- (a) Lung
- (b) Intestine
- (c) Liver
- (d) None of these

(ix) Ascaris is not :

- (a) Endo parasite
- (b) Monogenetic
- (c) Free living
- (d) Dioecious

- (x) The cause of Amcylostomiasis :
- (a) Wuchereria
 - (b) Trichuris
 - (c) An cylostoma
 - (d) Enterobims

Section - B

(Very Short Answer Type Questions)

3. Attempt **any five** questions. Each question carries **02** marks. (25-30 words) [5x2=10]

- (i) Trypanosomid
- (ii) Reservoir host
- (iii) 00 Kinete
- (iv) Schuffner granules
- (v) Leptomonad
- (vi) Phlebotomus
- (vii) Rhabditiform larva
- (viii) Ascariasis

Section - C

(Short Answer Type Questions)

4. Attempt **any five** questions. Each question carries **04** marks. (250 words) [4×5=20]

- (i) Miracidium larva
- (ii) Draw a sketch showing the reproductive system of *Fasciola hepatica* and label it fully.
- (iii) Distinguish between the schizont and cryptoschizont stages of plasmodium.
- (iv) Draw a labelled diagram to illustrate sporogony in *Plasmodium*.
- (v) Plant parasite haematodes
- (vi) AIDS
- (vii) Mycosis
- (viii) *Rickettsia*

Section - D

(Essay Type Questions)

4. Attempt **any three** questions. Each question carries **10** marks. (500 words) [3×10=30]

- (i) What is African Sleeping Sickness ? How it is caused ? Describe its transmission and Pathogenesis. Suggest methods for its control.
- (ii) Give an illustrated account of the life cycle of Plasmodium Vivax.
- (iii) What disease is caused by Ascaris ? Give an illustrated account of the life history of Ascasis ?
- (iv) What causes Kala-azar ? Give an account of the structure and life cycle of Leishmania.
- (v) What is Digenetic life cycle ? Explain it with reference to the life history of Fasciola hepatica.

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