

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY****FIRST SEMESTER – NOVEMBER 2023****UAZ 1504 – INVERTEBRATA - I**

Date: 01-11-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

SECTION A - K1 (CO1)**Answer ALL the Questions****(10 x 1 = 10)****1. Definitions**

- a) Rhizopoda
 b) Choanocytes
 c) Obelia Polyp
 d) Pin worm
 e) Polychaeta

2. Fill in the blanks

- a) _____ is caused by Leishmania donovani
 b) In Demospongiae, leconoid condition is derived from the larval stage called ____ as found in Spongilla
 c) Life history of Obelia exhibit an alternation of generation called _____
 d) Adults of Wuchereria bancrofti attacks _____ system.
 e) The saliva of leech has an anticoagulant called _____

SECTION A - K2 (CO1)**Answer ALL the Questions****(10 x 1 = 10)****3. MCQ**

- a) Presence of ingested RBCs is a characteristic feature of ____
 (a) Entamoeba histolytica (b) Dientamoeba fragilis
 (c) Entamoeba coli (d) Iodamoeba butcheli
- b) _____ is the name of the dried skeleton of 'Venus flower basket'
 (a) Euplectella (b) Euspongia
 (c) Leucosolenia (d) Spongilla
- c) The most primitive invertebrate to possess musculo-epithelial cells and nerve cells is
 (a) Sycon (b) Spongilla
 (c) Fasciola (d) Hydra
- d) Which of the infective stage to primary host of Fasciola?
 (a) Miracidium (b) Sporocyst
 (c) Metacercaria (d) Cercaria
- e) Which part of digestive system secretes digestive enzymes in annelids?
 (a) Intestine (b) Esophageal caeca
 (c) Stomach (d) Pharynx

4. Match the following

- a) Paramecium - Canal system
 b) Sycon - Zooids
 c) Obelia - Metamerically segmentation
 d) Ancylostome - Dorsal ventrally cylindrical

e)	Hirudinaria - Chausson
SECTION B - K3 (CO2)	
Answer any TWO of the following (2 x 10 = 20)	
5.	Illustrate the modes of locomotion in Protozoans
6.	Construct the important features and classification of Porifera
7.	Demonstrate the various mesenteries of Anthozoa
8.	Explain the life history of Taenia solium
SECTION C – K4 (CO3)	
Answer any TWO of the following (2 x 10 = 20)	
9.	Compare and contrast between parasitic adaptation of protozoan and helminth parasites
10.	Explain the characteristic features of Annelida and add a note on the morphology of Hirudinaria
11.	Elaborate the life cycle of Obelia with reference to metagenesis.
12.	Draw a neat labelled sketch of life cycle of Plasmodium
SECTION D – K5 (CO4)	
Answer any ONE of the following (1 x 20 = 20)	
13.	Summarize the modes of life in Annelids
14.	Justify the uniqueness of canal system pertaining to sponges.
SECTION E – K6 (CO5)	
Answer any ONE of the following (1 x 20 = 20)	
15.	Write a detailed note on the general characters and classification of Aschelminthes with suitable examples
16.	Evaluate the Polymorphic characters of Hydrozoans.

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