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3 (Sem–1/CBCS) ZOO HC 1

2020

(Held in 2021)

ZOOLOGY

(Honours)

Paper : ZOO–HC–1016

(Non-Chordates–I : Protista to Pseudocoelomates)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer : ***(any seven)*** 1×7=7

   (a) Sexual phase in life history of Plasmodium occurs in :

   (i) Blood of man

   (ii) Gut of mosquito

   (iii) Salivary gland of mosquito

   (iv) Liver cell of man.

Contd.

(b) Sponges transport their food by :

(i) Pinacocytes

(ii) Trophocytes

(iii) Choanocytes

(iv) Porocytes.

(c) Dead man's finger is the common name of :

(i) Fungia

(ii) Alcyonium

(iii) Heliopora

(iv) Corallium.

(d) The stage hatched from the ingested egg of Ascaris is called :

(i) Bladder Worm

(ii) Hexacanth

(iii) Maggot

(iv) Rhabditis larva.

(e) Polyps helps in :

(i) Reproduction

(ii) Nutrition

(iii) Excretion

(iv) Respiration.

(f) A digenic nematode parasite is :

(i) Filaria

(ii) Ancylostoma

(iii) Fasciola

(iv) Enterobius.

(g) The fusing nuclei come from the same cell in Automixis :

(i) Cytogamy

(ii) Paedogamy

(iii) Autogamy

(iv) Isogamy.

(h) Nematocysts are found in :

(i) Porifera

(ii) Cnidaria

(iii) Ctenophora

(iv) Platyhelminthes.

(i) Larva of obelia is :

(i) Amphiblastula

(ii) Scyphistoma

(iii) Planula

(iv) Parenchymula.

2. Match the following **Column–I** with **Column–II :** ***(any four)*** 2×4=8

(a)	**Column–I**	**Column–II**
(i)	Schizont	(1) Paramecium
(ii)	Endomixis	(2) Venus' flower baskets
(iii)	Rhizopoda	(3) Plasmodium
(iv)	Euplectella	(4) Entamoeba

(b)

	Column–I	Column–II
(i)	Hexacanth	(1) Fasciola
(ii)	Prostate gland	(2) Wuchereria
(iii)	Pseudocoel	(3) Taenia
(iv)	Viviparity	(4) Ascaris

(c)

	Column–I	Column–II
(i)	Entamoeba	(1) Cestoda
(ii)	Obelia	(2) Calcarea
(iii)	Taenia	(3) Lobosa
(iv)	Scypha	(4) Hydrozoa

(d)

	Column–I	Column–II
(i)	Atoll	(1) Cnidaria
(ii)	Colloblasts	(2) Spicules
(iii)	Vellum	(3) Coral island
(iv)	Scleroblasts	(4) Ctenophora

(e)

	Column–I	**Column–II**
(i)	Eyespot	(1) Platyhelminthes
(ii)	Polymorphism	(2) Ctenophora
(iii)	Biradial Symmetry	(3) Miracidium
(iv)	Freshwater snail	(4) Siphonophora

(f)

	Column–I	**Column–II**
(i)	Liver fluke	(1) Ascariasis
(ii)	Filarial worm	(2) Taeniasis
(iii)	Tapeworm	(3) Fascioliasis
(iv)	Roundworm	(4) Elephantiasis

3. Answer ***any three*** from the following questions : 5×3=15

(a) Discuss about the different types of metamerism in Animal kingdom. Add a note on their significance.

(b) Classify the phylum porifera upto class with example and mention *six* distinctive characters of the phylum.

(c) Write about the parasitic adaptation in Taenia solium.

(d) Write briefly about the flagellar movement of Euglena.

(e) Discuss the mode of infection and transmission of Elephantiasis.

4. Answer ***any three*** from the following questions : 10×3=30

(a) Describe the process of conjugation in paramecium with suitable diagram. Write on its significance. 6+4=10

(b) What are the skeletal elements of sponges ? Describe the development of spicules and comment on the functions of spicules in sponges. 2+4+4=10

(c) Write a comparative account of the polyp and medusa of obelia in terms of differences and similarities. Mention what medusa exhibit advanced features over polyp. 7+3=10

(d) What is Ctenophora ? Write the relationship with sponges and cnidaria. 2+8=10

(e) Describe the life history and pathogenicity of the organism causing amoebiasis with suitable diagram. 6+4=10

(f) Write a brief account of life cycle of Fasciola. Mention the preventive and control measures of Liver rot disease. 5+5=10

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