3 (Sem-1/CBCS) ZOO HC 1

2019

ZOOLOGY

(Honours)

Paper: ZOO-HC-1016

(Theory)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

- 1. Choose the correct answer (any seven): 1×7=7
 - (a) Which of the following belongs to
 - (i) Aurelia
 - (iii) Fungia
 - (iii) Stercularia
 - (iv) Dugesia

(b)	Which of the	following	does	not	have
	any alimentar	y canal?			

- (i) Taenia
- (ii) Frog
- (iii) Earthworm
- (iv) Ascaris
- (c) The infective stage of Entamoeba histolytica is
 - (i) sporozoite
 - (ii) minuta form
 - (iii) mature cyst
 - (iv) trophic form
- (d) Classification of phylum Porifera mainly based on
 - (i) canal system
 - fill spicules
 - (iii) shape of choanocytes
 - (iv) archaeocytes

(e)	Animals devoid of respiratory, excretory and circulatory organs are
	(i) liver fluke
	(ii) tapeworms
	(iii) threadworms
	(iv) sponges
(f)	In flatworms, the excretory organs are
	(i) archaeocytes
	(ii) solenocytes
	(iii) nephrons
	(iv) nephridia
(9)	Entamoeba histolytica differs from Amoeba proteus due to absence of
	(i) contractile vacuole
7 2	(ii) pseudopodia
1 m	(iii) binary fission
100	(iv) multiple fission
(F) Secondary host of Taenia solium is
	(i) cow

(iii) man (iii) sheep (iv) pig

(i)	The	body	of	sponges	is	mainly
	comp					

- (i) spongin fibres
- (ii) mesoglea
- (iii) spicules
 - (iv) nematoblasts

W. 1914 B	b) Hematobiasts
2. Match Colum	the following Column—I with n—II (any <i>four</i>): 2×4=8
(a)	Column—I Column—II
	(i) Coller cell (1) Amphiblastula 11
	(ii) Sycon (2) Glass rope sponge 1/1
	(iii) Hyalonema (3) Storage cells IV
	(iv) Theocytes (4) Choanocytes 1
(b)	Column—I Column—II
	(i) Cilia (1) Flagella (1v)
	(ii) Minuta form (2) Plasmodium (111)
	(iii) Signet ring (3) Entamoeba (11)
	(iv) Euglena (4) Paramoecium (i)
(c)	Column—I Column—II
parties of the or	(i) Ctenophora (1) Limnea
	(ii) Obelia (2) Gammule
	(iii) Fasciola (3) Medusa
	(iv) Freshwater (4) Swimming plates
(c)	Column—I Column—II (i) Ctenophora (1) Limnea (ii) Obelia (2) Gammule (iii) Fasciola (3) Medusa

sponges

(d)	Column—I	17,778	Column—II
	(i) Euglena	(1)	Medusa ///
	(ii) Ctenophores	(2)	Offense and defense ${\cal N}$
	(iii) Obelia	(3)	Photosynthetic protist
	(iv) Dactylozooid	(4)	Hermaphrodite //
(e)	Column—I		Column—II
	(i) Anthozoa	(1)	Radial or biradial
- I Tark	(ii) Hydrozoa	(2)	Medusoid
2.0	(iii) Scyphozoa	(3)	Polypoid
	(iv) Cnidaria	(4)	Pennatula
(f)	Column—I	menta y Sala	Column—II
	(i) Statocyst	(1)	Coral formation
	(ii) Ctenophora	(2)	Skeleton of a solitary coral
	(iii) Corallite	(3)	Sense organ
	(iv) Millepora	(4)	Triploblastic origin of tissue

- **3.** Answer any *three* from the following questions: 5×3=15
 - (a) Classify the phylum Nemathelminthes with general characters up to class and give examples.
 - (b) Write about the evolutionary significance of Ctenophora.

- (c) Discuss about the different types of locomotory organs in Protista. Add a note on their significance.
- (d) Write about the pathogenicity of Wuchereria bancrofti.
- (e) Discuss about the different types of spicules of sponges with necessary diagram.
- 4. Answer any three from the following: 10×3=30
 - (a) Discuss the life history of Plasmodium
 vivax with necessary diagrams. Add a
 note on its pathogenicity.

 8+2=10
 - (b) Describe the canal system in Porifera with necessary illustrations.
 - (c) Write an essay on the evolution of symmetry and segmentation of Metazoa with necessary illustrations.
 - (d) Discuss the life cycle of Taenia solium with necessary diagrams.

- (e) Write short notes on any two from the following: $5\times2=10$
 - (i) Parasitic adaptation in helminths
 - (ii) Metagenesis in obelia
 - (iii) Corals and coral reefs
- (f) Write an essay on polymorphism in Cnidaria.

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