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 Anthozoa?
 - (i) Aurelia
 - (ii) Fungia
 - (iii) Stercularia
 - (iv) Dugesia

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(Turn Over)

- (b) Which of the following does not have any alimentary 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
 - (ii) 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
- (g) Entamoeba histolytica differs from Amoeba proteus due to absence of
 - (i) contractile vacuole
 - (ii) pseudopodia
 - (iii) binary fission
 - (iv) multiple fission
- (h) Secondary host of Taenia solium is
 - (i) cow
 - (ii) man
 - (iii) sheep
 - (iv) pig

(i) s (ii) n (iii) s	osed of pongin fibres nesoglea picules	-	nges	is	mainly		
(iv) nematoblasts 2. Match the following Column—I with Column—II (any four): 2×4=8							
(a)	Column-I		Colt	ımn—	-II		
. (i)	Coller cell	(1)	Amph	iblast	ula		
(ii)	Sycon	(2)	Glass	rope	sponge		
(iii)	Hyalonema	(3)	Storag	ge cel	ls		
(iv)	Theocytes	(4)	Choar	ocyte	es		
(b)	Column—I		Co	lumn-	II		
\sim 6)	Cilia	(1)	Flage	ella			
(ii)	Minuta form	(2)	Plas	nodiu	m		
(iii)	Signet ring	(3)	Enta	moeb	a		
(iν)	Euglena	(4)	Para	тоесі	um		
(c)	ColumnI		Colu	mn	Ш		
√ (i)	Ctenophora	(1)	Limne	а			
(ii)	Obelia	(2)	Gamm	ule			
(iii)	Fa sciola	(3)	Medus	a			
(iv)	Freshwater sponges	(4)	Swimn	ning j	plates		
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(d)		Column—I		Column—II			
V	(i)	Euglena	(1)	Medusa			
	(ii)	Ctenophores	(2)	Offense and defense			
	(iii)	Obelia	(3)	Photosynthetic protist			
	(iv)	Dactylozooid	(4)	Hermaphrodite			
(e)		ColumnI		Column—II			
	(i)	Anthozoa	1)	Radial or biradial			
	(ii)	Hydrozoa	.(2)	Medusoid			
	(iii)	Scyphozoa	(3)	Polypoid			
	(iv)	Cnidaria	(4)	Pennatula			
(f)	,	Column—I	V.3	Column—II			
	(i)	Statocyst	(1)	Coral formation			
	(ii)	Ctenophora	(2)	Skeleton of a solitary coral			
	(iii)	Corallite (1993)	ી(3)ૃ	Sense organ			
	(iv)	Millepora	(4)	Triploblastic origin of tissue			
3. Answer any three from the following questions: 5×3=15							
(a)	Class	ify the phyl	lum I	Nemathelminthes			
• •	(a) Classify the phylum Nemathelminthes with general characters up to class and						
	give examples.						
<i>f</i> L1	Write about the evolutionary signifi-						
<i>y '</i>	cance of Ctenophora.						

- 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
 - Discuss the life history of Plasmodium vivax with necessary diagrams. Add a note on its pathogenicity. 8+2=10

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: 5×2=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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