(V(1st Sm.)-Zoology-H/CC-1/CBCS)

2021

ZOOLOGY — HONOURS

Paper : CC-1

(Nonchordate - I)

Full Marks : 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer any ten questions.

- 1. (a) What is homonymy and synonymy?
 - (b) State the salient features and demerits of five kingdom classification of Whittaker, 1969. 2+3
- **2.** (a) What is taxonomic hierarchy?
 - (b) Give two examples of animal with trinomial nomenclature.
 - (c) Mention the informations to be provided while designating a holotype. 1+2+2
- **3.** State the systematic position of the following animals (upto class) mentioning at least two diagnostic features of each taxon :
 - (a) Obelia sp.
- (b) *Aurelia* sp. $2\frac{1}{2}+2\frac{1}{2}$
- **4.** (a) What is flame cell?
 - (b) Mention the pathogenic symptoms of Loeffler's syndrome.
- (c) How does metamerism differ from strobilization?1+2+25. Elaborate the process of conjugation in *Paramoecium* sp with suitable diagram.5
- 6. (a) What is lymphangitis?
 (b) Give example of animals having only polyp and only medusoid form.
 (c) Mention the significance of radial symmetry. 1+2+2
- 7. (a) Why is the distribution of coral reef restricted to some parts of the world?
 - (b) What are zooids?(c) Write the scientific name of Portuguese man-of-war. 2+2+1

Please Turn Over

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(2)

8.	Draw a	ind describ	be the	syconoid	canal	system	and	show	the	course	of	water	flow	with	the	help	of	a
	flow ch	nart.															:	5

9. Distinguish between :

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	(a) Choanocyte and Pinacocyte.						
	(b) Digenea and Monogenea.	21/2+21/2					
10.	(a) Describe briefly the process of flagellary movements of Euglena sp.						
	(b) State the functions of contractile vacuoles.	4+1					
11.	Write notes on :	21/2+21/2					
	(a) Erythrocytic schizogony						
	(b) Trophozoite of Entamoeba histolytica.						
12.	Justify any two of the following statements with proper reasons :	21/2+21/2					
	(a) Plasmodium sp. is an apicomplexan animal.						
	(b) Microfilaria is nocturnal in habit.						
	(c) Liver fluke is responsible for liver rot disease.						
	(d) Sea-Pen is an anthozoan animal.						
13.	(a) Explain the cyclomerism theory of metazoan evolution.						
	(b) Distinguish between homonomous and heteronomous metamerism with examples.	21/2+21/2					
14.	Write short notes on (any two) :	21/2+21/2					
	(a) Parasitic adaptation of Wuchereria bancrofti.						
	(b) International code of zoological nomenclature.						
	(c) Locomotor organelles and locomotion in Sarcodina.						
15.	(a) Mention the salient features of Phylum Ctenophora.						
	(b) What do you mean by measly pork and cysticercosis?	2+3					