

U.G. 1st Semester Examination - 2018

ZOOLOGY

(HONOURS)

Course Code : ZOOH/CC-T-I

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***Answer all the questions.**1. Answer any **five** questions:

- a) Name two larval forms of Porifera. *2×5=10*
Paramoecium
Amphipoda
- b) What is neotype?
- c) Mention the role of trichocyst in *Paramoecium*.
- d) What is mesoglea?
- e) What is cysticercus?
- f) Write down the full form of ICZN. State the scientific name of sea-pen.
- g) State the function of macronucleus and micronucleus in *Paramoecium*.
- h) What do you mean by definitive host of a parasite?

w. hr
[Turn over]

2. Answer any two questions: $5 \times 2 = 10$

a) Justify the systematic position of

i) *Schistosoma* sp.

ii) *Hylonena* sp. $5+5$

b) State the salient features of phylum Cnidaria.

What do you mean by metagenesis? $3+2$

c) What do you mean by coral bleaching? Give a note on fringing reef. State the name of symbiotic algae of coral. $2+2+1$

d) Discuss the physiological adaptation in parasitic helminthes. Comment on pathogenicity of *Entamoeba histolytica*. $3+2$

3. Answer any two questions: $10 \times 2 = 20$

a) What do you mean by symmetry? Mention the different types of Symmetry in Kingdom-Animalia. How does the segmentation of annelid differ from the repeating units of body of a tapeworm? $1+5+4$

b) Discuss the basic criteria of Zoological Nomenclature. Differentiate between Systematics and Taxonomy. Explain monophylectic and polyphylectic groups. State the characteristic features of phylum Nematoda.

$3+2+2+3=10$

- c) Give an example of digenean trematode. Describe its life history with suitable diagram. Mention the name of the disease caused by this parasite. Comment on the control measure of this disease.

1+4+2+1+2

- d) Discuss the modifications of medusoid form of phylum Cnidaria. Give a note on origin of polymorphism. State two characteristic features of class hydrozoa.

5+3+2
