

2022

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.*

1. Answer **any five** questions from the following : 2×5
- (a) Distinguish between microtaxonomy and macrotaxonomy.
 - (b) What are preconjunctants and exconjunctants?
 - (c) Define metagenesis with an example.
 - (d) What do you understand by biradial symmetry? Give an example.
 - (e) Where do you find nectocalyx? State its function.
 - (f) What are prosopyles and apopyles?
 - (g) What is binomial nomenclature? Give an example.
 - (h) Mention the causes of coral bleaching.
2. Write notes on **any two** of the following : 5×2
- (a) Role of symbiotic algae in coral reef formation
 - (b) Types of spicules in Porifera
 - (c) Excystment and metacystic development of *Entamoeba*
 - (d) Parasitic adaptations of *Fasciola hepatica*.
3. Answer **any three** questions from the following :
- (a) (i) Draw and describe Leuconoid canal system and show the course of water flow.
 - (ii) Draw and describe the structure of flagellum in *Euglena* sp. (2+3)+(2+3)
 - (b) (i) Explain the pre-erythrocytic schizogony of *Plasmodium vivax*.
 - (ii) What are Schuffner's dots?
 - (iii) Compare Calcarea and Demospongiae with examples. 4+2+4

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- (c) (i) Describe the principle of priority with example.
- (ii) Comment on the main postulates of Carl Woese classification. How does it differ from Whittaker's classification.
- (iii) What is tautonym? Give an example. $3+(3+2)+(1+1)$
- (d) (i) Write about the pathogenicity and control measures of *Ascaris lumbricoides*.
- (ii) Briefly describe Miracidium and Cercaria larvae mentioning their occurrence. $(3+2)+(2\frac{1}{2}\times 2)$
- (e) (i) What is atoll?
- (ii) Briefly describe any two theories of coral reef formation.
- (iii) State the diagnostic features of Trematoda and Cestoidea with example. $1+(2\frac{1}{2}\times 2)+(2+2)$
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