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B.Sc. RNLK-/CIT/21

2021

Zoology

(Non-Chordate)

[First Semester]

Paper - C1T

Full Marks : 40

Time : 2 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.

Illustrate the answers wherever necessary.

Group - A

1. Answer any five from the followings. 2×5=10

- a) What is the function of collar cells in Sycon?
- b) What will happen, if flagella of choanocytes are made motionless?
- c) Why polyp is described as the nutritive Zooid?

(Turn Over)

(2)

- d) What do you mean by coelenterates? What symmetry is found in majority of coelenterates?
- e) A family name should be based on the basis of type genus – explain with examples.
- f) Presence of thick cuticle in nematodes helps them to live a parasitic life – give reasons.
- g) What do you mean by direct & indirect life cycle?
- h) How do symbiotic algae enhance the formation of coral skeleton?

Group - B

2. Answer any four from the following. 5×4=20

- a) Write the difference between coral, corallum & corallite.
- b) Differentiate between the three types of coral reefs. Give at least two examples of each type coral.
- c) “Canal system forms the circulatory system of in sponges”–Justify the statement.
- d) Explain nuclear re-organisation in relation to paramecium.
- e) Write note on importance of synonyms.

(3)

- f) Write difference between anthozoa & scyphozoa with examples.

Group - C

3. Answer any one (1) from the following.

- a) What do you mean by pathogenicity? Describe life cycle of *Ascaris* sp with suitable diagram. 2+8=10
- b) What is metazoa? What is metagenesis? Describe polymorphism in siphonophora with diagram.

1+1+8=10