

U.G. 1st Semester Examination - 2021**ZOOLOGY****Course Code : BZOOCCHC 101****Course Title : Non-chordates I: Protista to
Pseudocoelomates**

Full Marks : 30

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.*

1. Answer any **ten** from the following: $1 \times 10 = 10$
- Write down the scientific name of a pseudo-coelomate animal.
 - Define axoneme.
 - What do you mean by Schuffner's dots?
 - Which phylum is classified according to spicules and fibers present in their body?
 - Who proposed the "screw theory of locomotion" in *Euglena* sp.?
 - What do you mean by "ex-conjugant"?
 - What is 'Law of priority'?

- In which life stage *Plasmodium* sp. enters into RBC?
- What do you mean by sibling species?
- Differentiate a male from female *Ascaris* by important features.
- Write the scientific name of Portuguese-man of-war.
- Write down the scientific name of a free living platyhelminth.
- Define Polymorphism.
- What is Lectotype?
- What is apomorphic character?

2. Answer any **five** from the following: $2 \times 5 = 10$
- What is mesoglea? Mention its function.
 - Comment on the advancement of Phylum Platyhelminthes over phylum Cnidaria.
 - What do you mean by a monogenetic parasite? Give an example.
 - What is the difference between "amphid" and "phasmid"?
 - Write a short note on Zooxanthellae.
 - What do you mean by metachronocity? Where you can observe such phenomenon?

- g) Distinguish between Synonymy and Tautonymy.
- h) What do you mean by prosodus and aphodus?
3. Answer any **two** from the following: $5 \times 2 = 10$
- a) Write the basic difference between Alternation of Generation and Metagenesis. Briefly describe the role of metagenesis in the life cycle of *Obelia*. $1\frac{1}{2} + 3\frac{1}{2} = 5$
- b) Draw and briefly describe the ultra structure of a flagellum in transverse section $3 + 2 = 5$
- c) What do you mean by Ascariasis? Briefly discuss the pathogenicity and control measures of *Ascaris* sp. $1 + 2 + 2 = 5$
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