

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
F. Y. B. Sc. Sem-I :SUMMER- 2022
SUBJECT : ZOOLOGY : ANIMAL SYSTEMATIC & FUNCTIONAL ANATOMY
OF NON-CHORDATES-I

Day : Saturday
Date : 16-07-2022

S-18301-2022

Time : 11:00 AM-02:00 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

Q.1 Attempt **ANY TWO** of the following : **(12)**

- a) Describe conjugation in *Paramecium*.
- b) Describe systematic position and external characters of cockroach.
- c) What is Binomial nomenclature? State its rules and the importance of binomial nomenclature.

Q.2 Attempt **ANY TWO** of the following : **(12)**

- a) Describe pre clitellar circulatory system in earthworm.
- b) Describe male reproductive system of cockroach.
- c) Describe thoracic and abdominal spiracle in cockroach.

Q.3 Attempt **ANY TWO** of the following : **(12)**

- a) Describe septal nephridium in earthworm.
- b) Describe digestive system of earthworm.
- c) Describe microstructure of eye and its functioning in cockroach.

Q.4 Attempt **ANY THREE** of the following : **(12)**

- a) Write a note on importance of classification.
- b) Write a note on cyclosis in *Paramecium*.
- c) Sketch and label digestive system of cockroach.
- d) With suitable diagram describe central nervous system of earthworm.

Q.5 Attempt **ANY FOUR** of the following : **(12)**

- a) Write systematic position of earthworm.
- b) Sketch and label *Paramecium*.
- c) Give structure and function of gizzard in cockroach.
- d) Write short note on clitellar region of earthworm.
- e) Write a note on nucleus in *Paramecium*.
- f) Write habit and habitat of cockroach.
