

F.Y.B.Sc. SEM – I (CBCS 2018 COURSE) : WINTER - 2018
SUBJECT: ZOOLOGY: ANIMAL SYSTEMATIC & FUNCTIONAL ANATOMY OF
NON- CHORDATES - I

Day: Tuesday
Date: 23/10/2018

W-2018-0674

Time: 11.00 A.M TO 02.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: (12)

- a) Explain importance of classification and add a note on 'Binomial Nomenclature'?
- b) Describe nutrition in *Paramecium*.
- c) Describe binary fission in *Paramecium*.

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

- a) Describe the structure and function of septal nephridium in earthworm.
- b) Describe female reproductive system of cockroach.
- c) Describe digestive system of earthworm.

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

- a) With suitable diagram describe thoracic and abdominal spiracle in cockroach.
- b) Describe post-clitellar circulatory system in earthworm.
- c) Describe systematic position and external morphology of cockroach.

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

- a) Describe central nervous system of earthworm.
- b) Describe male reproductive system of earthworm.
- c) Sketch and label digestive system of cockroach.
- d) Describe malpighian tubule in cockroach.

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

- a) Write habits and habitat of *Paramecium*.
- b) Give significance of conjugation in *Paramecium*.
- c) Write a note on clitellar region of earthworm.
- d) Write systematic position of earthworm.
- e) With suitable diagram, write a note on salivary gland of cockroach.
- f) Write note on habits and habitat of cockroach.

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