

F.Y.B.SC. SEM – I (2014 COURSE) : SUMMER - 2018

**SUBJECT : ZOOLOGY: ANIMAL SYSTEMATICS & FUNCTIONAL ANATOMY OF
NON-CHORDATES – I (Z – 11)**

Day : **Wednesday**
Date : **25/04/2018**

Time : **12.00 NOON TO 02.00 PM**
Max. Marks : 40

S-2018-0686

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary
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Q.1 Attempt **ANY TWO** of the following: [10]

- a) Describe binary fission in *Paramecium*.
- b) Describe cyclosis and process of digestion in *Paramecium*.
- c) What is binomial nomenclature? State its rules and the importance of binomial nomenclature.

Q.2 Attempt **ANY TWO** of the following: [10]

- a) Describe male reproductive system of Cockroach.
- b) With suitable diagram describe digestive system of Earthworm.
- c) Describe pre-clitellar circulatory system in Earthworm.

Q.3 Attempt **ANY TWO** of the following: [10]

- a) Describe malpighian tubule in Cockroach.
- b) Describe nervous system of Cockroach.
- c) Sketch and label septal nephridium of Earthworm.

Q.4 Attempt **ANY FIVE** of the following: [10]

- a) Write habits and habitat of *Pheretima posthuma*.
- b) Write systematic position of Cockroach.
- c) Write five kingdom with one example each.
- d) Write significance of conjugation in *Paramecium*.
- e) Describe setae of Earthworm.
- f) Sketch and label salivary gland of Cockroach.
- g) Write note on gizzard of Cockroach.

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