

**F.Y.B.SC. SEM – I (CBCS - 2016 Course) : WINTER - 2018**  
**SUBJECT : ZOOLOGY: ANIMAL SYSTEMATICS & FUNCTIONAL ANATOMY OF**  
**NON-CHORDATES - I**

Day : Thursday  
Date : 25/10/2018

**W-2018-0689**

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

**N.B.:**

- 1) All questions are **COMPLUSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.

**Q.1 A) Attempt all the following: [06]**

- a) The branch of biology which deals with the study of identification, nomenclature and classification of organism is \_\_\_\_\_.  
i) embryology    ii) ecology    iii) toxicology    iv) taxonomy
- b) Method of food intake in *Paramecium* is \_\_\_\_\_.  
i) holozoic    ii) saprozoic    iii) autozoic    iv) holophytic
- c) In earthworm, the typhlosole is part of the \_\_\_\_\_.  
i) reproductive system    iii) intestine  
ii) circulatory system    iv) nephridium
- d) The male genital pore of earthworm is found in \_\_\_\_\_.  
i) 14<sup>th</sup> segment    iii) 16<sup>th</sup> segment  
ii) 18<sup>th</sup> segment    iv) 14<sup>th</sup> segment
- e) Mouth parts of cockroach are \_\_\_\_\_.  
i) chewing and biting type  
ii) piercing and sucking type  
iii) chewing and sucking type  
iv) licking and chewing
- f) The salivary gland of cockroach secretes \_\_\_\_\_.  
i) lipase    ii) trypsin    iii) amylase    iv) pepsin

**B) Attempt all the following: [06]**

- a) Who proposed five kingdom approach of classification?
- b) Write zoological name of *Paramecium*.
- c) In which segments of earthworm clitellum is present?
- d) Write phylum and class of earthworm.
- e) Write the function of malpighian tubules in cockroach.
- f) Write habitat of cockroach.

**P.T.O.**

- Q.2** Attempt **ANY THREE** of the following: [12]
- a) Describe dorsal view of earthworm.
  - b) Describe nervous system of earthworm.
  - c) Describe malpighian tubule of cockroach.
  - d) Sketch and label male reproductive system of cockroach.

- Q.3** Attempt **ANY FOUR** of the following: [12]
- a) Write systematic position of cockroach.
  - b) Describe binary fission of *Paramecium* in brief.
  - c) Write a note on clitellar region of earthworm.
  - d) Write short note on integumentary nephridia of earthworm.
  - e) Write five kingdoms with examples of each.

- Q.4** Attempt **ANY TWO** of the following: [12]
- a) Describe digestive system of cockroach.
  - b) Describe reproductive system of earthworm.
  - c) Explain importance of classification and add a note on 'Binomial Nomenclature'.

- Q.5** Attempt **ANY TWO** of the following: [12]
- a) Describe external morphology of cockroach.
  - b) Describe conjugation in *Paramecium*.
  - c) Describe the circulatory system of earthworm in the intestinal region.

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