

F.Y.B.SC. SEM – I (CBCS - 2016 COURSE) : SUMMER - 2018

SUBJECT : ZOOLOGY : ANIMAL SYSTEMATICS & FUNCTIONAL ANATOMY OF
NON-CHORDATES – I

Day : Saturday
Date : 28/04/2018

S-2018-0628

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.

Q.1 A) Attempt all the following: (06)

- a) Phylum of paramecium is
i) Porifera ii) Protozoa iii) Annelida iv) Arthropoda
- b) In paramecium, number of contractile vacuoles are
i) Four ii) Two iii) One iv) Three
- c) In earthworm, the typhlosole is a part of the
i) Intestine ii) Reproductive tract iii) Circulatory system iv) Nephridium
- d) *Pheretima posthuma* is
i) Herbivorous ii) Carnivorous iii) Sanguivorous iv) Omnivorous
- e) Male cockroach is characterized by
i) Anal cerci ii) Spiracle iii) Anal style iv) Long wing
- f) Malpighian tubules of cockroach are used for
i) Excretion ii) Osmoregulation iii) Digestion iv) Respiration

B) Attempt all the following: (06)

- a) Define taxonomy.
- b) Write biological name of *Paramecium*.
- c) In which segments of earthworm clitellum is present?
- d) Write function of mouth in earthworm.
- e) Write about the food of Cockroach.
- f) Enlist the various mouth parts of Cockroach.

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

- a) Describe abdominal spiracle of cockroach
- b) Describe malpighian tubules of cockroach.
- c) Describe external morphology of earthworm.
- d) Sketch and label septal nephridium in earthworm.

P.T.O.

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

- a) Write short note on significance of conjugation.
- b) Write on spermatheca in earthworm.
- c) Write a short note on clitellar region of earthworm.
- d) Write systematic position of cockroach.
- e) Write short note on gizzard of cockroach.

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

- a) With suitable diagram describe digestive system of earthworm.
- b) Describe male reproductive system of cockroach.
- c) Describe nervous system of cockroach.

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

- a) With suitable diagram describe digestive system of cockroach.
- b) Describe reproductive system of earthworm.
- c) What is binomial nomenclature? State its rules and the importance of binomial nomenclature.

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