

F.Y.B.SC. SEM – I (CBCS - 2016 COURSE) : WINTER - 2017
SUBJECT : ZOOLOGY : ANIMAL SYSTEMATICS & FUNCTIONAL ANATOMY OF
NON-CHORDATES – I

Day : **Thursday**
Date : **09/11/2017**

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

W-2017-0550

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) Locomotion in paramecium is carried by
i) Pseudopodia ii) Flagella iii) Cilia iv) Caudal tuft
- b) In paramecium, number of nuclei present are
i) Two ii) One iii) Four iv) Three
- c) Nephrostome is part of
i) Septal nephridia ii) Integumentary nephridia
iii) Intestine iv) Pharyngeal nephridia
- d) Gizzard in earthworm is situated in the following segment.
i) 7th ii) 9th iii) 8th iv) 10th
- e) Vision of Cockroach is
i) Monocular ii) Binocular iii) Mosaic iv) All
- f) Cockroach has chitinous teeth for grinding in its
i) Gizzard ii) Mandible iii) Pharynx iv) Mouth

B) Attempt all the following: (06)

- a) Enlist the five kingdoms.
- b) Write about contractile vacuoles in Paramecium.
- c) In which segment testis are present in earthworm.
- d) Write function of typhlosole in earthworm.
- e) Which type of mouth part is present in cockroach.
- f) Write function of malpighian tubules in cockroach.

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

- a) Describe female reproductive system of cockroach.
- b) With suitable diagram describe abdominal spiracle in cockroach.
- c) Sketch and label septal nephridium in earthworm.
- d) Describe nervous system of earthworm.

P.T.O.

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

- a) Write a note on binary fission in paramecium.
- b) Describe salivary glands of cockroach.
- c) Write a note on working of eye in cockroach.
- d) Describe typhlosolar region of alimentary canal in earthworm.
- e) Write a note on pharyngeal nephridia in earthworm.

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

- a) Describe dorsal and ventral view of earthworm.
- b) With suitable diagram describe nervous system of cockroach.
- c) Describe thoracic spiracles in cockroach.

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

- a) Describe systematic position and external morphology of cockroach.
- b) Describe post clitellar circulatory system in earthworm.
- c) Explain importance of classification and add a note on 'Binomial Nomenclature'.

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