

**F.Y.B.SC. SEM – I (2014 COURSE) : WINTER - 2017**

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

Day : **Tuesday**  
Date : **07/11/2017**

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

**W-2017-0594**

---

**N.B.:**

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

**Q.1** Attempt **ANY TWO** of the following: **[10]**

- a) Describe external morphology of *Paramecium*.
- b) Describe conjugation in *Paramecium*.
- c) Explain importance of classification and add a note on 'Binomial nomenclature'.

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

- a) With suitable diagram describe alimentary canal of Cockroach.
- b) Describe the structure and function of septal nephridium in Earthworm.
- c) Describe external morphology of Earthworm.

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

- a) Sketch and label female reproductive system of Cockroach.
- b) Describe thoracic spiracles in Cockroach.
- c) Describe central nervous system of Earthworm.

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

- a) Write habits and habitat of Cockroach.
- b) Write systematic position of Earthworm.
- c) Write significance of conjugation.
- d) Write five kingdom with one example each.
- e) Sketch and label salivary gland of Cockroach.
- f) Comment on food and feeding habit of Earthworm.
- g) Write about setae in Earthworm.

\* \* \* \*