

**S.Y.B.SC. SEM – III (2014 COURSE) : WINTER - 2017**  
**SUBJECT: ZOOLOGY: FUNCTIONAL ANATOMY OF NON-CHORDATES-II AND**  
**BIODIVERSITY (Z-31)**

**Day: Friday**  
**Date: 10/11/2017**

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

**W-2017-0624**

**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** Answer **ANY TWO** of the following: **(10)**

- a) Give general characters of phylum Mollusca. Mention the classes with suitable examples.
- b) Describe pedicellariae in starfish.
- c) With suitable diagram describe digestive system of starfish.

**Q.2** Answer **ANY TWO** of the following: **(10)**

- a) Sketch and label water vascular system of starfish.
- b) Define Bioluminescence? Add a note on the types of bioluminescence.
- c) Give an account of animal diversity in phylum Arthropoda.

**Q.3** Answer **ANY TWO** of the following: **(10)**

- a) Describe metamorphosis in insects.
- b) Describe torsion and detorsion in Mollusca.
- c) Give classification and general characters of class Nematoda.

**Q.4** Answer **ANY FIVE** of the following: **(10)**

- a) Write the classes of phylum Echinodermata.
- b) Give economic importance of prawn.
- c) Write any four characters of Hemichordata.
- d) Write any four nematodes and its diseases in man.
- e) Write habits and habitat of starfish.
- f) Sketch and label aboral view of starfish.
- g) Write about shell in *Dentalium*.

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