

**S.Y.B.SC. SEM – III (CBCS - 2016 COURSE) : WINTER - 2017**  
**SUBJECT: ZOOLOGY: FUNCTIONAL ANATOMY OF NON-CHORDATES-II**  
**& BIODIVERSITY**

Day : **Monday**  
Date : **13/11/2017**

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

**W-2017-0581**

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** Marks.
  - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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**Q1.** Attempt **ANY TWO** of the following: **(12)**

- a) Describe water vascular system of starfish.
- b) Describe food, feeding mechanism and physiology of digestion in starfish.
- c) Give general characters of phylum mollusca. Mention any three classes with suitable examples.

**Q.2** Attempt **ANY TWO** of the following: **(12)**

- a) Give an account of animal diversity in phylum echinodermata.
- b) Describe in brief metamorphosis in insects.
- c) Describe foot modification in gastropoda.

**Q.3** Attempt **ANY TWO** of the following: **(12)**

- a) Describe development of nematoda.
- b) Write an essay on mimicry in insects.
- c) Describe bioluminescence. Add a note on the types of bioluminescence.

**Q.4** Attempt **ANY THREE** of the following: **(12)**

- a) Describe systematic position of starfish with reasons.
- b) Sketch and label digestive system of starfish.
- c) Write general characters of class insecta.
- d) Write general characters of phylum hemichordata.

**Q.5** Attempt **ANY FOUR** of the following: **(12)**

- a) Write a note on autotomy and regeneration in starfish.
- b) Write a note on shell in *pila*.
- c) Write any three characters of class myriapoda.
- d) Give habits and habitat of starfish.
- e) Describe shell in *Dentalium*.
- f) Sketch and label bipinnaria larva of starfish.

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