

S.Y.B.SC. SEM – III (CBCS - 2016 COURSE) : SUMMER - 2018
SUBJECT : ZOOLOGY: FUNCTIONAL ANATOMY OF NON-CHORDATES-II
& BIODIVERSITY

Day : **Thursday**
Date : **03/05/2018**

Time : **03.00 PM TO 06.00 PM**
Max. Marks : 60

S-2018-0659

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 oral and aboral view of starfish.
- b) With suitable diagram describe structure and functions of pedicellariae in starfish.
- c) Give general characters of phylum echinodermata. Mention any three classes with suitable examples.

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

- a) Write an essay on animal diversity in phylum arthropoda.
- b) Write in brief shell modification in mollusca.
- c) Give an account of mimicry in insects.

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

- a) Describe four nematode parasites of man with zoological name, common name, site of infection, mode of infection and pathogenic effects.
- b) Describe metamorphosis in insects.
- c) Explain bioluminescence. Write types and significance of bioluminescence.

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

- a) With suitable diagram describe bipinnaria larva of starfish.
- b) Sketch and label water vascular system of starfish.
- c) Write general character of phylum hemichordata.
- d) Write general characters of class cephalopoda.

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

- a) Write a note on pyloric caecae of starfish.
- b) Write a note on foot in *Mytilus*.
- c) Write any three characters of phylum mollusca.
- d) Write a note on foot in *Aplysia*.
- e) Write any three characters of class pelecypoda.
- f) Write a note on autotomy and regeneration in starfish.