

S.Y.B.SC. SEM – III (2014 COURSE) : SUMMER - 2018
SUBJECT : ZOOLOGY : FUNCTIONAL ANATOMY OF NON-CHORDATES – II & BIODIVERSITY

Day : **Monday** Time : **12.00 NOON TO 02.00 PM**
Date : **30/04/2018** **S-2018-0716** Max. Marks : 40

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 Attempt **ANY TWO** of the following: **[10]**

- a) Describe digestive system of starfish.
- b) Describe larval stages that occurs in seastar.
- c) Give an account of animal diversity in phylum Echinodermata.

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

- a) How light is produced by certain animals? Give the significance of Bioluminescence.
- b) Give general characters of phylum Arthropoda. Mention the classes with suitable examples.
- c) Sketch and label water vascular system of starfish.

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

- a) Describe in brief shell modifications in Mollusca.
- b) Give classification and general characters of class Nematoda.
- c) Describe mimicry in insects.

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

- a) Sketch and label oral view of starfish.
- b) Explain torsion in Mollusca.
- c) Write any four characters of Hemichordata.
- d) Mention economic importance of prawn.
- e) Define autotomy in starfish.
- f) Enlist classes of Mollusca.
- g) Name any four nematodes and its disease in man.

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