

S.Y.B.SC. SEM – III (2014 Course) : WINTER - 2018
SUBJECT: ZOOLOGY: FUNCTIONAL ANATOMY OF NON-CHORDATES-II AND
BIODIVERSITY (Z-31)

Day: Friday
Date: 26/10/2018

W-2018-0809

Time: 12.00 NOON TO 02.00 PM
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.
-

Q.1 Answer **ANY TWO** of the following: **(10)**

- a) Give general characters of phylum Arthropoda. Mention the classes with suitable examples.
- b) Describe digestive system of starfish.
- c) Describe Bipinnaria larva of starfish.

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

- a) Give an account of animal diversity in phylum Echinodermata.
- b) How light is produced by the animals? Give the significance of Bioluminescence.
- c) Sketch and label water vascular system of starfish.

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

- a) Describe mimicry in insects.
- b) Describe in brief foot modifications in Mollusca.
- c) Describe four nematode parasites of man giving their zoological name, common name, site of infection, mode of infection and its pathogenic effects.

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

- a) Write any four characters of phylum Hemichordata.
- b) Explain torsion in Mollusca.
- c) Write economic importance of crustaceans.
- d) Write functions of pedicellariae in starfish.
- e) Explain autotomy and regeneration in starfish.
- f) Enlist the classes of phylum Mollusca.
- g) Define metamorphosis in insects.

* * * * *
