BACHELOR OF SCIENCE (CBCS-2018 COURSE)
S. Y. B. Sc. Sem-III :SUMMER- 2022
SUBJECT : ZOOLOGY : FUNCTIONAL ANATOMY OF NON-CHORDATES-II & BIODIVERSITY

Day : Tuesday
Date : 19-07-2022

S-18356-2022

Time : 03:00 PM-06:00 PM
Max. Marks : 60

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat and labelled diagrams **WHEREVER** necessary.

Q.1 Attempt any **TWO** of the following: **(12)**

a) Describe water vascular system of starfish.

b) Give general characters of phylum echinodermata. Add a note on class Asteroidea.

c) Write food, feeding mechanism and physiology of digestion in starfish.

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

a) Describe development of nematoda.

b) Explain metamorphosis in insects.

c) Describe shell modification in mollusca.

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

a) How the light is produced by the animals in bioluminescence? Add a note on its significance.

b) Give general characters of phylum arthropoda. Mention the classes with suitable example.

c) Write an essay on mimicry in insects.

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

a) Write systematic position of starfish with reasons.

b) Write general characteristics of phylum hemichordata.

c) Sketch and label digestive system of starfish.

d) Write general characters of mollusca.

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

a) Write any three characters of class pelecypoda.

b) Write habits and habitat of *Asterias rubens.*

c) Write short note on types of bioluminescence.

d) Write a note on foot in gastropoda.

e) Write a note on autotomy and regeneration in starfish.

f) Explain foot in cephalopoda.

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