

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

Day : Thursday

Time : 10:00 AM-01:00 PM

Date : 22-12-2022

W-18356-2022

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

- a) Write suitable diagram describe structure and functions of pedicellariae in starfish.
- b) Give general characters of phylum mollusca. Mention any three classes with suitable examples.
- c) Describe digestive system of starfish.

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

- a) Explain in brief metamorphosis in insects.
- b) Describe foot modification in gastropoda.
- c) Write animal diversity in phylum arthropoda.

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

- a) Give an account of mimicry in insects.
- b) Explain bioluminescence. Write types and significance of bioluminescence.
- c) Give zoological name, mode of infection and pathogenic effects of any four nematode parasites in man.

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

- a) Write general characters of phylum hemichordata.
- b) Write general characters of phylum echinodermata.
- c) Describe bipinnaria larva of starfish.
- d) Sketch and label water vascular system of starfish.

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

- a) Write a note on autotomy and regeneration in starfish.
- b) Write systemic position of starfish.
- c) Write any three characters of class myriapoda.
- d) Explain shell in *Dentalium*.
- e) Sketch and label oral view of starfish.
- f) Write a note on shell in *Pila*.