

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2019 – 2020 & thereafter)

SUBJECT CODE: 19ZL/MC/IV14

B.Sc. DEGREE EXAMINATION - NOVEMBER 2022
BRANCH VI A – ADVANCED ZOOLOGY & BIOTECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : INVERTEBRATA
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL THE QUESTIONS

(10 x 3 = 30)

1. Give the causative organism for and symptoms of Amoebiasis.
2. Mention the types of locomotion observed in Phylum Protozoa.
3. Differentiate between Polyp and Medusa of *Obelia*.
4. What is an atoll?
5. Give three characteristic features of Phylum Porifera.
6. Highlight the importance of leech therapy.
7. Illustrate Siphoning type of mouthparts in insects.
8. Give the functions for the following: a. Slime glands b. Petasma c. Trichocyst
9. Mention the significance of Bipinnaria larva.
10. What is Radula?

SECTION – B

ANSWER ANY FIVE QUESTIONS

(5 x 6=30)

11. Illustrate and explain the process of Conjugation in *Paramecium*.
12. Analyse the threats to coral reefs and write a note on their conservation.
13. Outline the characteristic features of Phylum Annelida.
14. With the help of neat labelled diagrams, describe the cephalic appendages of *Penaeus*.
15. Elaborate on the economic importance of Molluscs.
16. Discuss social life in honey bees.
17. Explain metamerism with the help of neat, labelled diagrams.

SECTION - C

ANSWER ANY TWO QUESTIONS

(2 x20=40)

18. Summarize Canal System in Sponges.
19. Explain the life cycle of *Taenia solium*.
20. Describe the structure of *Peripatus* and discuss its affinities.
21. Elaborate on the water vascular system in Starfish.
