

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

B. Sc. DEGREE EXAMINATION, APRIL 2024
BRANCH VIA. ADVANCED ZOOLOGY & BIOTECHNOLOGY
SIXTH SEMESTER

COURSE : MAJOR ELECTIVE
PAPER : INTRODUCTION TO MARINE BIOLOGY
SUBJECT CODE : 19ZL/ME/IB45
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION – A

ANSWER ALL QUESTIONS: (10 X 3 = 30)

1. Define the term biofilm.
2. Comment on estuarine fauna.
3. Highlight the importance of probiotic bacteria in aquaculture.
4. State the importance of marine protected areas.
5. Distinguish continental shelf from continental slope.
6. Give the significance of belemnites.
7. How do mangroves and coral reefs protect our coasts?
8. Comment on biofouling
9. What is eutrophication?
10. Enumerate the applications of echosounder.

SECTION – B

ANSWER ANY FIVE QUESTIONS: (5 X 6 = 30)

11. Explain the formation and dynamics of waves and tides.
12. Write notes on ornamental aquatic organisms.
13. Describe the different types of marine pigments.
14. Give an account on the important features of planktons and nektons.
15. Describe the mechanism of adaptations of deep-sea organisms
16. Elaborate on the impact of sewage on the marine environment.
17. Explain the types of marine toxins.

SECTION – C

ANSWER ANY TWO QUESTIONS: (2 X 20 = 40)

18. Explain the different types of mariculture with suitable examples.
19. Discuss the diversity of sea birds and marine mammals and its mechanism of adaptation.
20. Summarize the various types of pollutants and its effects on marine organisms.
21. Investigate the significance of marine microbes.
