

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**FOURTH SEMESTER – APRIL 2022**

**16/17/18UZO4ES01 – ESSENTIALS OF MARINE BIOLOGY**

Date: 23-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**PART – A**

**Answer ALL the Questions**

**(10 X 2=20 Marks)**

1. What is residence time?
2. Name the different types of estuaries.
3. Define: Pycnocline and thermocline
4. What is edge effect?
5. Comment on hydrothermal vents.
6. Distinguish wave Crest from wave trough.
7. List down the trace element of sea water.
8. What is spring tide?
9. State the importance of pneumatophores.
10. Comment on bleached coral reefs.

**PART – B**

**Answer any FOUR of the following**

**(4 X 10 =40 Marks)**

11. Explain the types and ecological importance of mangroves.
12. Write short notes on UV radiation.
13. Briefly explain the ecological importance of coral reef.
14. Enumerate the saline features of benthic zone.
15. Explain the ecological and economic value of estuaries.
16. Give an account on marine pollution.

**PART – C**

**Answer any TWO of the following**

**(2 X 20=40 Marks)**

17. Write an essay on the chemical properties of seawater.
18. Classify and explain the planktons and nektons.
19. Enumerate the role of national and international organizations in ocean management
20. Write notes on a) Waves b) Eutrophication

**@@@@@@**