R8347	Sub. Code
	461401

M.Sc. DEGREE EXAMINATION, APRIL – 2023

Fourth Semester

Oceanography and CAS

RESEARCH METHODOLOGY

(CBCS – 2019 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Define diatom with example.

2. Define seaweed with example.

3. Define Microscope?

4. What is Histochemistry?

5. Short note on spectroscopy and its types

6. Define cDNA?

7. Define standard deviation and error.

8. What is FASTA and BLAST?

9. Define data with example?

10. What is e-journal?

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Describe the methods for estimation of reproduction in animals.

Or

(b) Write note on ecological importance diatoms.

12. (a) Describe about principles and applications of light microscope.

Or

(b) Explain about histochemistry and its methods.

13. (a) Write principles and applications of chromatography.

Or

(b) Give a detailed account on electrophoresis with principle and application.

14. (a) Give detailed account on regression and ANOVA.

Or

(b) Classify the types of search engines and function in bioinformatics.

15. (a) How do you write a research abstract?

Or

(b) Describe about art of presenting data results.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Describe in detail about assessing primary productivity.

17. Write an essay on Scanning and Electron Microscope.

18. Explain about centrifuge and its principle and applications.

19. Describe in details about biological databases.

20. Give an account on manuscript preparation with computer aided techniques.

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