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Name: .....

Reg.No: .....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P GEL3 E03A - MARINE GEOLOGY**

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. Generalize history of Marine Geology.
2. Explain pressure distribution in ocean.
3. Define salinity.
4. Recall Gas hydrates.
5. Describe Jetties and Piers.
6. Distinguish subtropical gyre and subpolar gyre.
7. Distinguish upwelling and downwelling.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Describe Abyssal Plane features.
9. Describe thermocline, including where it occurs in the ocean with suitable diagram.
10. Extend and clarify chemical properties of sea water.
11. Classify different types of marine sediments.
12. Summarize Coastal Process.
13. Extend and clarify Ekman spiral model and compare the western intensification of subtropical gyre with suitable diagram.
14. Describe Origin of thermohaline circulation.

**(4 × 3 = 12 Weightage)**

**Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. Describe ocean margins and its geological significance.
16. Describe the origin, and composition of biogenous sediments.
17. Extend and clarify the Coastal features seen in Indian Subcontinent.
18. Explain ENSO warm phase and cool phase with suitable diagram and mention the effects of EL Nino and La Nina.

**(2 × 5 = 10 Weightage)**

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