24P350 (Pages: 2) Name: .....

Reg.No: .....

THIRD SEMESTER M.Sc DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PGEL3E03A - 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. Recall the distribution of pressure in ocean surface.
3. Extend and clarify the dissolved materials present in sea water.
4. Recall phosphatic nodules.
5. Describe Dikes and Levees.
6. Differentiate the convergence and divergence of ocean water.
7. Explain conveyor belt circulation and dissolved oxygen in deep water.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain the formation of Continental rise
9. Describe pycnocline, including where it occurs in the ocean with suitable diagram.
10. Compare the salinity variation with depth. Explain with suitable diagram.
11. Distinguish the characteristics of hydrogenous sediments and cosmogenous sediments.
12. Describe Category III (CRZ -III) and Category IV (CRZ-IV)
13. Examine Ekman spiral model and compare the western intensification of subtropical gyre with suitable diagram.
14. Describe Walkers cell circulation.

(4 × 3 = 12 Weightage)

Part-C

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

15. Describe the formation and evidences of Mid Oceanic Ridges.

16. Describe different types of marine sediments and its distribution.

17. Discuss about the importance of tides and currents in nature.

18. Examine surface currents and deep ocean currents. Explain the various components of surface circulation.

(2 × 5 = 10 Weightage)

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