

**18P257**

(Pages: 2)

Name:.....

Reg. No:.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2019**

(Regular/Improvement/Supplementary)

(CUCSS - PG)

**CC15P GEL2 C06 - APPLIED GEOLOGY AND MARINE GEOLOGY**

(Applied Geology)

(2015 Admission onwards)

Time: 3 Hours

Maximum: 36 Weightage

*Provide neat sketches wherever necessary.*

I. Answer **all** questions in not more than 100 words: Each question carries 1 weightage.

1. Placer deposits.
2. Decorative stones.
3. Angle of repose.
4. Submarine Canyons.
5. CRZ
6. Coal mining.
7. Groins.
8. Cut-off wall of Dams.
9. Toppling.
10. Subsidence.
11. Pycnocline.
12. Rip currents.
13. Diurnal tides.
14. Tombolo.

**(14 x 1 = 14 Weightage)**

II. Answer any **seven** questions not more than 250 words: Each question carries 2 weightage.

15. Glomar Challenger expeditions.
16. River sand mining and its challenges.
17. Petroleum exploration.
18. Engineering properties of Rocks and Soil.
19. Coastal protection structures.
20. Geological factors that affect the stability of tunnels.
21. Temperature and Salinity distribution of oceans.

- 22. Coastal erosional land forms.
- 23. Eustatic sealevel changes.
- 24. Sea-bottom topographic features.

**(7 x 2 = 14 Weightage)**

III. Write essays on *two* questions. Each question carries 4 weightage.

- 25. Illustrate the origin of ocean basins with respect to Plate tectonic theory.

Or

- 26. Discuss the factors that control the stability of slopes, Also describe various types and causes of land slides.
- 27. Describe various geological factors that influence the foundation and design of building with special emphasis on aseismic design of buildings.

Or

- 28. Discuss various coastal processes by waves, currents and tides Enumerate on the coastal geomorphology and its classification.

**(2 x 4 = 8 Weightage)**

\*\*\*\*\*