

17P151

(Pages:2)

Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017

(Regular/Supplementary/Improvement)

(CUCSS-PG)

CC15P GEL1 C01 – PHYSICAL GEOLOGY AND GEOMORPHOLOGY

(Applied Geology)

(2015 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

PART A

(Short Answer type)

Answer *all* questions. Each question carries 1 weightage.

1. Geoid.
2. Heat flow.
3. Extra-terrestrial materials.
4. Seismic discontinuities.
5. Magnetic reversals.
6. Nebular hypothesis.
7. Wave erosion.
8. Soil profile.
9. Peneplain.
10. Beach.
11. Graded streams.
12. Lagoon.
13. Slope stability.
14. Coastal environments.

(14 x 1 = 14 weightage)

PART B

(Short essays. each not exceeding two pages)

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

15. Gravity measurements and anomalies.
16. Isostasy.
17. Fluvial erosion.
18. Prediction of earthquake.
19. Types and controls of mass movements.

- 20. Coastal landforms associated with wave erosion.
- 21. Morphometric analysis of drainage basin.
- 22. Geomorphic features and geological structures.
- 23. Concept of geomorphologic cycles.
- 24. Relief features of Kerala.

(7 x 2 = 14 weightage)

PART C

(Long essays)

Answer *two* questions. Each question carries 4 weightage.

- 25. Explain the internal structure of earth highlighting the nature of seismic discontinuities and the composition of different layers.

Or

- 26. Describe briefly different models of landscape evolution.

- 27. Describe the classification, mode of occurrence and significance of wetlands. Add a note on the Kayals of Kerala.

Or

- 28. Describe the geomorphic features of Indian subcontinent. Add a note on the geomorphology of Kerala.

(2 x 4 = 8 weightage)

(14 x 1 = 14 weightage)

PART B

Answer any seven questions. Each question carries 2 weightage. (Short essays, each not exceeding two pages)

- 15. Gravity measurements and anomalies.
- 16. Isostasy.
- 17. Fluvial erosion.
- 18. Prediction of earthquakes.
- 19. Types and controls of mass movements.