

**23P146**

(Pages: 2)

Name: .....

Reg.No: .....

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

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P GEL1 C01 - PHYSICAL GEOLOGY AND GEOMORPHOLOGY**

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

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

1. Briefly explain Airys hypothesis.
2. Explain the co-relation of climate and time in geological features.
3. Elucidate the formation of beach face.
4. What are the difference between Messa and Butte?
5. Wetlands are known as the Kidneys of earth. Validate.
6. What are the physiographic divisions of Kerala?
7. What are the importance to study geomorphology?

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Evolution of solar system.
9. Theory of uniformitarianism.
10. Tectono-geomorphic model of M.Morisawa.
11. Backwaters of Kerala.
12. Soil profile.
13. Geomorphic features of Indian subcontinent.
14. Compare between debris and mud flows.

**(4 × 3 = 12 Weightage)**

**Part-C**

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

15. Define thermal history of earth with special reference to geothermal gradient.
16. How the concept of seismology helped in revealing the structure of earth interior.
17. Describe the morphometric analysis of a drainage basin. Add a note on rejuvenation of streams.
18. Formation of hill slopes in relation to lithology and structural weakness in rocks.

**(2 × 5 = 10 Weightage)**

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