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Name: .....

Reg.No: .....

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P GEL4 E05A - ENGINEERING GEOLOGY**

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

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

1. Discuss Cracking test for aggregates.
2. Extend and clarify parts of dam.
3. Define traffic tunnel.
4. Define flows and its types.
5. Discuss Under ground mining method.
6. Describe wild cat drilling.
7. Describe Scrubbing for ore dressing.

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Describe Problems of civil engineering structures.
9. Describe Soil Mechanics.
10. Describe sedimentation and its siltation rate.
11. Explain different types of bridges and its parts.
12. Explain geological considerations in a seismic design.
13. Illustrate sand mining.
14. Explain Sea floor mining methods.

**(4 × 3 = 12 Weightage)**

**Part-C**

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

15. Describe engineering properties of soil.

16. Explain highways and the principles involved in highway investigations.
17. Explain petroleum exploration methods.
18. Generalize mineral legislation in India.

**(2 × 5 = 10 Weightage)**

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