



QP CODE: 25047344



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc GEOLOGY

Core Course - GL010303 - MINING AND ENGINEERING GEOLOGY

2019 ADMISSION ONWARDS

485C6656

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is a bench in an open cast mine?
2. What is overhand stopping?
3. What is mountain top coal mining method?
4. What is classification?
5. What is run-of-mine?
6. Write a note on the efficiency of laterite as a construction material.
7. Evaluate the term Liquid limit of soil.
8. Differentiate overbreak and underbreak in tunnelling.
9. Add a note on cantilever bridge.
10. What is reservoir dredging?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Give an account of ground slucing.
12. Discuss the types of explosives used for mining.
13. Discuss the favourable conditions for horizon mining for coal winning.
14. Discuss the quality and safety of explosives used in the mining sector.
15. Explain the advantages and limitations of RQD.





16. Explain various coastal erosion mechanisms.
17. Explain various geotechnical coastal erosion controlling measures.
18. Write a note on earthquake resistant structures.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Discuss mine exploration and exploitation.
20. Discuss the various types of sorting methods and its principles.
21. Write a detailed note on various engineering properties of rocks.
22. Write a detailed note on geotechnical considerations required for a river valley project?

(2×5=10 weightage)

