



QP CODE: 25022317



25022317

Reg No :

Name :

M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025

Third Semester

M.Sc GEOLOGY

CORE - GL010303 - MINING AND ENGINEERING GEOLOGY

2019 ADMISSION ONWARDS

C7D48EB5

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is level in a mine?
2. What is sluice box?
3. What is continuous miner?
4. What is ore dressing?
5. What is reclamation?
6. What is porosity?
7. If volumetric joint count of a rock mass is 7.9, calculate its RQD using Palmstrom formula?
8. Define tunnel axis.
9. What is the use of bearing pad in a bridge?
10. Write a note on coastal erosion mechanism.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Discuss mine stability and mining sequence.
12. Explain the vertical retreat mining process.
13. Discuss the different methods of sorting.
14. Discuss the extent of damage caused to environment due to mining.





15. Explain USCS classification of soils.
16. Evaluate the causes and effects of reservoir sedimentation.
17. Explain various geotechnical coastal erosion controlling measures.
18. Explain the possible reasons for seismicity in Stable Continental regions.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Discuss the various types of mine supports used in underground mines.
20. Discuss the reagents used for floatation.
21. Describe in detail rock as a construction material, foundation material and rock aggregate.
22. Give a detailed note on geological and hydrological considerations in the selection of reservoir site.

(2×5=10 weightage)

