



QP CODE: 25047343



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025**

**Third Semester**

M Sc GEOLOGY

**Core Course - GL010302 - ADVANCED ECONOMIC GEOLOGY**

2019 ADMISSION ONWARDS

5123CE17

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Differentiate mineral resource from mineral reserves.
2. Write the importance of temperature and pressure in ore formation.
3. How do REE form in Carbonatite ?
4. Comment on mineralizing fluids and its movements in the earth's crust.
5. What are placer deposits ? Write their types and location of formation.
6. What are refractory minerals? Write their economic importance.
7. Application of Laser Raman techniques in fluid inclusion studies.
8. Write the time sequence in which metallic mineralization tookplace in India.
9. Write a note on ore mineralization in plate boundaries.
10. How could we distinguish psilomelane and bauxite under an ore microscope?

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Discuss the genetic classification of ore deposits.
12. Write short note on mineral deposits in mafic rocks.
13. Discuss the importance of tectonic environment in hydrothermal deposits.
14. Write a short note on sandstone type uranium deposits.
15. Write a short note on gondite and its economic importance.





16. What are indicator minerals ? Write their uses.
17. Discuss the secondary textures resulting from deformation.
18. Explain the functioning of ore microscope.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any two questions.*

*Weight 5 each.*

19. Discuss the genesis of Kimberlites with special emphasis on diamond deposits, and various Kimberlite occurrences in India.
20. Describe in detail about SEDEX deposits with Indian examples.
21. Describe the mode of occurrences, genesis and types of BIF deposits. Add a note on Indian BIF deposits.
22. Give a detailed account of metallogenic provinces of India and their major mineral deposits.

(2×5=10 weightage)

