



QP CODE: 25022316



Reg No : .....

Name : .....

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

**Third Semester**

M.Sc GEOLOGY

**CORE - GL010302 - ADVANCED ECONOMIC GEOLOGY**

2019 ADMISSION ONWARDS

153BD0A9

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight **1** each.*

1. How do we distinguish gangue from ore ?
2. How do the rock structures influence ore localization?
3. Write a note on economic importance of pegmatite.
4. Discuss conditions favouring hydrothermal deposits.
5. Prepare a brief note on major ores of titanium.
6. Write the general characteristics and economic uses of talc.
7. Uses of fluid inclusion study in ore genesis.
8. Write a short note on metallogenic provinces of India.
9. Illustrate the tectonic relation with ore mineralization.
10. What is martite texture?

(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. Distinguish magmatic and hydrothermal deposits.
13. Explain the process of formation of SEDEX deposits.
14. Discuss the process of formation of manganese nodules and their uses.
15. Write a short note on gondite and its economic importance.





16. Write short note on geothermometric studies in economic geology.
17. Write a short note on the working of ore microscope.
18. What are the optical properties of ore minerals? Give two example for each.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Describe the ore forming processes associated with mafic rocks. Add a note on Indian copper deposits.
20. Write a detailed account on VHMS deposits.
21. Discuss the mechanical concentration deposits, and add a note on economic significance of sedimentary deposit at Manavalakurichi, Tamil Nadu.
22. Describe metallogenesis through geological time. Illustrate your answer with major ore deposits of India.

(2×5=10 weightage)

