



QP CODE: 26019185



26019185

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc GEOLOGY

ELECTIVE - GL800401 - FUEL GEOLOGY AND MICROPALAEONTOLOGY

2019 Admission Onwards

3F79773D

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the different types of liptinites?
2. Define vitrain and durain.
3. Define thermal maturity indices.
4. Differentiate ash and volatile matter of coal.
5. List out the physical properties of crude oil.
6. What is a salt dome?
7. State the importance of Jaduguda in Indian energy industry.
8. What is beach sand deposit? List out the important beach placer deposits in India.
9. Mention the habitat of ostracods.
10. What are the favorable conditions for the preservation of spores and pollens?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Give an account of the main contributors of organic matter for hydrocarbon generation preserved in sediments.
12. Give an account of the secondary migration of hydrocarbons in hydrodynamic conditions.





13. Discuss the properties of source and reservoir rocks.
14. Discuss the seismic method of petroleum exploration.
15. Give an account of the duties of a petroleum geologist.
16. Give an account of the CBM producing blocks in India.
17. Give an account of the morphological characteristics and classification of foraminifera.
18. Write a note on extraction and treatment for microfossils.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Discuss the characteristics of coal deposits of India? Describe the importance of Gondwana coal in Indian coal industry.
20. Discuss the quantity of coal deposits in India in terms of its spatial and temporal distribution.
21. Discuss the fundamental aspects of petroleum reservoir engineering.
22. Discuss the surface, sub surface and geophysical methods of petroleum exploration.

(2×5=10 weightage)

