

Roll No.

Total Pages : 2

CMDQ/D-23

5218

PETROLEUM GEOLOGY

Paper–GT–705

Time Allowed : 3 Hours]

[Maximum Marks : 100

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short notes on the following :

- (a) Diagenesis
- (b) Fractured reservoir rocks
- (c) Entrapment of hydrocarbons
- (d) Oil Shale.

UNIT–I

2. What are Kerogens? Discuss the types of Kerogens.

3. Explain following in brief :

- (a) Thermal Alteration Index (TAI)
- (b) Dispersed Organic Matter.

UNIT–II

- 4. Write a detailed note on classification and nomenclature of reservoir rocks.
- 5. Write brief on the following :
 - (a) Marine reservoir rocks
 - (b) Nonmarine reservoir rocks.

UNIT–III

- 6. Discuss the Migration and Accumulation of Hydrocarbons in detail.
- 7. Write brief notes on the following :
 - (a) Stratigraphic and combination type of traps.
 - (b) Structural Traps.

UNIT–IV

- 8. Discuss unconventional resources of hydrocarbons.
- 9. Write brief on the following :
 - (a) Shale gas
 - (b) Major oil fields of Assam.