

Roll No. ....

Total Pages : 2

**CMDQ/M-24**

**5564**

## **FUEL GEOLOGY**

Paper-G-403

Time Allowed : 3 Hours]

[Maximum Marks : 75

**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) Vitrinite.
- (b) CBM.
- (c) Kerogen.
- (d) Reservoir Rock.
- (e) Radioactivity

### **UNIT-I**

2. Discuss the process of Coalification.

3. Write notes on the following :

- (a) Proximate analysis of Coal.
- (b) Micro-lithotypes.

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### **UNIT-II**

- 4. Give a detailed account on Geographical distribution of Coal.
- 5. Write brief on the following :
  - (a) Coal as a source of hydrocarbon.
  - (b) Utilization of coal and its impact on the Environment.

### **UNIT-III**

- 6. Discuss the Major Oil and Gas fields of India.
- 7. Write brief notes on the following :
  - (a) Transformation of Organic matter.
  - (b) Metagenesis and Ketagenesis.

### **UNIT-IV**

- 8. Discuss the modes of Occurrence of Uranium deposits of India.
- 9. Attempt the following :
  - (a) Nuclear power and its potential in India.
  - (b) Nuclear energy and its sources.

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