

Roll No. ....

Total Pages : 2

**CMDQ/M-24**

**5578**

## **COAL GEOLOGY AND TECHNOLOGY**

Paper–GT–802

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) Constituents of Coal.
  - (b) Microlithotypes.
  - (c) Coal carbonisation.
  - (d) Environmental impacts of Coal mining.

### **UNIT-I**

2. Discuss the theories of origin of Coal.
3. Write notes on the following :
  - (a) Origin of peat swamps.
  - (b) Physical changes associated with increased coal rank.

### **UNIT-II**

4. Discuss the ultimate analysis of Coal.
5. Write brief on the following :

### **UNIT-III**

6. What is Coal bed methane (CBM)? Discuss in detail.
7. Write brief notes on the following :
  - (a) Coal liquefaction.
  - (b) Coal gasification.

### **UNIT-IV**

8. Discuss the Gondwana Coal deposits of India.
9. Write brief on the following :
  - (a) Coal burning and its impact.
  - (b) Tertiary coal deposits of India.