

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.