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25-GE-44

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
MAY - JUNE 2025**

GEOLOGY

Paper - IV

[Fuel Geology]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Describe the Physicochemical characteristics of Coal.

OR

Write notes on –

- i) Macroscopic ingredients of Coal.
- ii) Origin of Coal.

Q. 2 Give detailed description of Coal classification.

OR

Write notes on –

- i) Carbonization of Coal.
- ii) Gasification and hydrogenation of Coal.

Q. 3 Write the geology and structure of important coal field in India.

OR

Write notes on –

- i) Estimation of Coal Reserve.
- ii) Surface method of Coal mining.

Q. 4 Describe the origin of Petroleum and Natural Gas.

P.T.O.

OR

Write notes on –

- i) Migration and accumulation of Petroleum.
- ii) Shale gas and gas hydrates.

Q. 5 Give details of mode of occurrence, association and geographical distribution of atomic minerals in India.

OR

Write notes on –

- i) Productive Horizons of atomic minerals in India.
- ii) Nuclear power stations in India.

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