

M.Sc.(Geology) (CBCS Pattern) Semester - IV  
**PSCGEOT15.1 - Paper-III : Fuel Geology (Coal, Petroleum & Nuclear)**

P. Pages : 1

Time : Three Hours



**GUG/S/23/11388**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw a neat sketches whenever necessary.

1. Write a brief note on coal preparation.

**OR**

Write a note on the followings.

- Drift Theory.
- Ultimate Analysis.
- Classification of coking coal.
- Grade of coal.

2. Give a geological and Geographical distribution of Gondwana Coal.

**OR**

Write a note on the followings.

- Macerals.
- Micro lithotype.
- Fluorescence microscopy.
- Application of coal petrology.

3. Give a brief account of migration of oil.

**OR**

Write a note on the followings.

- Kerogen.
- Reservoir Rock.
- Oil window.
- Stratigraphic traps.

4. Write a brief account of Radiometric survey for radioactive mineral deposit.

**OR**

Write a notes on the followings.

- Origin of radioactive mineral deposit.
- Measurement of radioactivity.
- Geiger Muller counters.
- Application of radioactivity.

5. Write a short note on the followings.

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|---------------------------------------|---|
| a) Anthracite.                        | b) Ash  |
| c) CBM                                | d) Reflectance.   |
| e) Elements of petroleum Exploration. | f) Mother Rock.   |
| g) Atomic fuel.                       | h) Name any four productive radioactive deposit of the India. |

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