

## Set-B

University of Delhi

Name of the Paper: Fuel Geology

Unique paper code: 32197503

Course: B.Sc. (H.) Geology (CBCS)

Semester-V

**Duration: 3 Hrs.**

**Maximum marks: 75**

### **Instruction to the students**

Answer maximum **four questions**, attempt minimum **two questions** from each section.

All questions carry equal marks.

### **Section-A: Petroleum Geology#**

1. What is hydrocarbon trap? Discuss in detail the various types of hydrocarbon traps. Which type of hydrocarbon trap you consider is complicated for exploration.
2. Discuss in detail the petroleum system. Also add a note on the reserves of Nuclear Fuel in India and its future prospects.
3. What is crude oil? How is crude oil extracted and separated? Discuss the various chemical composition and physical properties of crudes in nature.

### **Section-B: Coal Geology**

4. The term 'Maceral' in reference to coal is analogous to the term 'Mineral' in reference to petrology. Justify and explain the statement.
5. What do you understand by calorific value? Describe in detail the various elemental analyses under ultimate analysis.
6. Define Gas Hydrates. How are they formed? Discuss the global reserves of Gas Hydrates. What are the technical challenges associated with Gas Hydrates exploration?