

**2016-18**

*Time : 3 hours*

*Full Marks : 70*

*Candidates are required to give their answers in their own words as far as practicable.*

*The questions are of equal value.*

*Answer five questions in which*

*Q. No. 1 is compulsory.*

1. Answer the following in **two** sentences each :

- (a) What do you mean by fossil fuel ?
- (b) What is a Kerogen ?
- (c) What is a source rock ?
- (d) What is secondary migration ?
- (e) What are reservoir rocks ?
- (f) What is electrical logging ?
- (g) What is borehole logging ?

2. Write an essay on 'origin of petroleum'.

3. Give an account of migration and accumulation of petroleum.

4. Write notes on the following :

- (a) Surface and sub-surface occurrence of petroleum
- (b) Reservoir Traps

5. Discuss about the petroliferous basin of India.

6. Give an account of geology of Digboi oil field.

7. Describe the geological and geographical distribution of oil in India.

8. Discuss the present investigation and future prospects of petroleum in India.

9. Write notes on the following :

- (a) Well logging
- (b) Oil field water

