



AF-3593

M.Sc. (Final)
Term End Examination, 2017-18

GEOLOGY

Paper - III

Fuel Geology Ore Geology

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer **all** questions. The figures in the right-hand margin indicate marks.

Unit-I

1. Write notes on the following in detail :
(a) Rank, Grade and types of Coal 10
(b) Coal Gasification and Coal Hydrogenation 10

OR

Write notes on the following:

- (a) Distribution of Gondwana Coal 10
- (b) Coal-Petrology 10

(2)

Unit-II

2. Write an essay on origin, nature and migration of oil and gas. 20

OR

Write notes on the following :

(a) Kerogen 10
(b) Oil bearing basins of India 10

Unit-III

3. Write notes on the following :

(a) Atomic fuels and environment 10
(b) Modern concept of orogenesis 10

OR

Write notes on the following in detail :

(a) Textures of ore 10
(b) Ore bearing fluids, their origin and migration 10

Unit-IV

4. Write notes on the following :

(a) R. E. E. and Isotopes 10
(b) Organic matters in ore 10

OR

(3)

Write notes on the following :

(a) Diamond in kimberlite (Orthomagmatic ores)	10
(b) Petrological association of chromite and platinum	10

Unit-V

5. Write notes on the following :

(a) Black Smokers	10
(b) Mn Nodules	10

OR

Write notes on the following :

(a) Ore minerals of Manganese, tenor and chemical composition	10
(b) Ore minerals of Aluminium, tenor and chemical composition	10
