

2008-2009
B.Sc.(HONS.) (PART-III) EXAMINATION
(GEOLOGY)
ENERGY RESOURCES & MINERAL EXPLORATION
(GL-316)

Maximum Marks: 40

Duration : Three Hours.

Answer all questions.

1. Write notes on any two of the following: 07
 - (a) Types of coal
 - (b) Origin of coal
 - (c) Gondwana coal fields.

2. Describe in detail the various types of traps for accumulation of oil. 07

OR

- 2'. Write notes on the following:
 - (a) Origin of hydrocarbons
 - (b) Reservoir rocks.

3. Discuss the physical properties and origin of important minerals of Uranium and Thorium. 06

OR

- 3'. Describe the various methods of prospecting for radioactive minerals.

4. Briefly describe the various geophysical methods used in mineral exploration. Enlist the various advantages and disadvantages of air-borne and ground surveys. 07

5. Define 'reserve'. Give a classification of reserve. Add a note on reserve estimation. 06

OR

- 5'. Write short notes on the following:
 - (a) Grab sampling
 - (b) Geo-chemical method for mineral exploration.

6. Write explanatory notes on any two of the following: 07
 - (a) Mineral production in India.
 - (b) National mineral Policy
 - (c) Mineral resources of the sea.