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2010-2011
 B.Sc. (HONS.) (PART-III) EXAMINATION
 (GEOLOGY)
 ENERGY RESOURCES & MINERAL EXPLORATION
 (GL-316)

Maximum Marks: 40

Duration: Three Hours

Answer all questions.

1. Give a detailed account of the present and future energy requirements of India and the coal reserves in the country. 06

OR

- ✓1. Write detailed notes on the following:

- (a) Geothermal resources of India.
- (b) Types of coal and their characteristics.

2. Describe the various geological and geophysical method of hydrocarbon exploration. 06

- ✓3. Explain the geochemical behaviour of uranium and thorium in endogenous and exogenous environments. 07

4. What are the various advantages of using remote sensing in mineral exploration? Explain how different geological features indicative of the presence of mineral deposits may be identified through remotely sensed data. 07

OR

4. Give an overview of the applicability of geophysical methods in mineral exploration. What can be revealed by gravity measurements at the surface?

5. What is borehole logging? Explain the different kinds of borehole logs and how they are obtained? 07

6. What are strategic and critical minerals? What is India's position with regard to these categories of minerals? 07

OR

- ✓6. Give an account of the mineral resources of the sea and laws of the sea.