

IAS Mains Geology 1991

Paper II

Section A

1. Write notes on any three of the following in about 200 words each:
 - a. Difference between crystalline and non-crystalline substances
 - b. Phyllo-silicates
 - c. Digenesis
 - d. Magmatic differentiation
2. What are optical accessories? How are they useful? Describe the construction of any one you know.
3. Describe the plagioclase feldspar group of minerals.
4. Discuss the problem of charnokites and charnockites.

Section B

5. Write notes on any three of the following in about 200 words each:
 - a. Caving methods
 - b. Ore forming fluids
 - c. Remote sensing method Hydrogeology
 - d. Tertiary coal fields of India
6. Give an account of the stratigraphic controls of mineral localisation.
7. Write an essay on the National Mineral Policy.
8. Give an outline of the methods of ore beneficiation.