

IAS Mains Geology 1994

Paper II

Section A

1. Write notes on any three of the following in about 200 words each:
 - a. Crystal irregularities
 - b. Pleochroism
 - c. Isomorphism
 - d. Sphericity and Roundness in sediments
2. Explain the use of X-ray studies in crystallographic investigations.
3. Describe pyroxene group of minerals and their alteration products.
4. Give a petrological account of Deccan Basalts and add a note on their origin.

Section B

5. Write notes on any three of the following in about 200 words each:
 - a. Ore and gangue
 - b. Stability of hill side
 - c. Sampling
 - d. Lignite deposits
6. Critically review the usefulness of aerial photographs in geological studies.
7. Describe the classification of ore deposits.
8. Explain the term exploration. Describe various methods and stages of mineral exploration.