

IAS Mains Geology 1992

Paper II

Section A

1. Write notes on any three of the following in about 200 words each:
 - a. Stereographic Projection
 - b. Dispersion in minerals
 - c. Bowens reaction principle
 - d. Depositional environment of sediments
2. Describe the optic principle of anisotropism and give an account of the optical expression of this process in natural minerals.
3. Give an account of Physical Chemical and Optical properties of the mica group of minerals. Add a note on their uses and products of alteration.
4. Describe any three of the following rock types:
 - a. Diorite
 - b. Gabbro
 - c. Granulite
 - d. Chert

Section B

5. Write notes on any three of the following in about 200 words each:
 - a. Tenor of ore
 - b. Geology in relation to dam construction
 - c. Flotation method of ore dressing
 - d. Coal Field of Andhra Pradesh
6. Describe the electrical methods of prospecting and critically review their limitations.
7. Describe sedimentary processes as ore forming processes with example.
8. Critically review the methods of conserving minerals and the laws to enforce such conservation.