

# IAS Mains Geology 1993

## Paper II

### Section A

1. Write notes on any three of the following in about 200 words each:
  - a. Twin laws and twinning in feldspars
  - b. Polymorphism
  - c. Isotropism
  - d. Binary systems
2. Describe the construction and uses of a Nicol Prism.
3. Give the structure and classification of Silicates.
4. What are heavy minerals? Discuss the significance of their study.

### Section B

5. Write notes on any three of the following in about 200 words each:
  - a. Tunnelling
  - b. Flotation
  - c. Mineral conservation
  - d. Structures of ore deposits
6. Describe infiltration, storage and circulation of ground water in hard rock terrains.
7. What are controls of ore deposition? Describe them.
8. Give an account of the mineral wealth of India.