## **IAS Mains Geology 1998**

## Paper I

## **Section A**

- 1. Explain any three of the following in about 200 words each:
  - a. Geomagnetic reversals
  - b. American and European views on geosynclines
  - c. Boudinage and its significance
  - d. Lagoons as coral gardens-Justify.
- 2. What are folds? Explain the mechanism of folding and distinguish between Recumbent and Reclined folds.
- 3. Write brief notes on the following:
  - a. Moraines
  - b. Axial plane cleavages
  - c. Canyons and Gorges
  - d. Pacific volcanic belt
  - e. Slump
- 4. Are volcanoes and earthquakes related to each other? Explain the various causes and effects of earthquakes.

## **Section B**

- 5. Answer any three of the following in about 200 words each:
  - a. Products Limestone Series of Salt Range
  - b. Stratigraphic importance of Umia Series of Kutch
  - c. A brief review of rise of Himalayas
  - d. Semri Series of Lower Vindhyans
- 6. What is marine transgression? Discuss the Cretaceous rocks of Trichinapalli with special reference to their fossil contents.
- 7. Describe the morphology of Echinoids. Mention their classification and add a note on their distribution.
- 8. Write explanatory notes on the following:
  - a. Palaeogeographic reconstructions
  - b. Banded Gneissic Complex
  - c. Modes of fossil preservation