## **IAS Mains Geology 1996**

## Paper I

## **Section A**

- 1. Explain any three of the following in about 200 words each:
  - a. Island Arcs
  - b. Atolls and Reefs
  - c. Isostasy
  - d. Unconformities
- 2. Comment on the classification of folds, Illustrate your answer with neat sketches.
- 3. Write brief notes:
  - a. Stalactites and Stalagmites
  - b. Antecedent drainage
  - c. Piedmont glacier
  - d. Yardangs
  - e. Tombolo
- 4. Trace the evolution of the Plate Tectonic theory and describe its main features.

## **Section B**

- 5. Answer any three of the following in about 200 words each:
  - a. Classification of the Gondwanas
  - b. Cretaceous-Eocene boundary
  - c. Sausar Group
  - d. Siwalik sedimentation
- 6. Draw neat labelled diagrams to illustrate the morphology of Echinoids. Tabulate the distinction between Regular and Irregular Echinoids. Add notes on their distribution in time.
- 7. Write detailed notes on:
  - a. Inter-trappeans and their importance in Stratigraphy
  - b. Himalayan uplift
  - c. Marine transgression in Permocarboniferous
- 8. What is Stratigraphy? Discuss the principles of stratigraphic correlation. Also briefly explain the basis of reconstruction of standard stratigraphic scale.