

**M. Sc. (Previous) Examination, 2001**

**GEOLOGY**

**Paper IV**

**(Stratigraphy)**

**Time—Three Hours  
Maximum Marks—100**

Attempt **FIVE** questions in all,  
Selecting at least **TWO** questions from each section.  
All questions carry equal marks.

**SECTION A**

1. With special reference to Rajasthan, discuss the evolution of either granite-greenstone OR granulite belts.

**OR**

Discuss the Geology of granite-greenstone terrain of South Indian shield.

2. Discuss the principles of correlation in Precambrian stratigraphy and briefly describe the Precambrian provinces of India.
3. Describe the stratigraphy of Vindhyan supergroup with reference to tectono-sedimentary evolution.
4. Write short notes on any **FOUR** of the following:
- (a) Early history of the Earth
  - (b) Banded Gneissic Complex
  - (c) Protocontinental evolution
  - (d) Charnokite terrain
  - (e) Delhi Supergroup.

**OR**

Write detailed notes on either Canadian Shield or Rhodesian Craton.

5. Write short notes on any **FOUR** of the following:
- (a) Nature of early crust
  - (b) Geochronology and Geological Time Scale
  - (c) Aravalhi Supergroup
  - (d) Hadacan
  - (e) Nature and form of early life.

**SECTION B**

6. Suggesting a palaeogeographic reconstruction, write a short account of Phanerozoic stratigraphy of Rajasthan.

7. Write an essay on the Jurassic stratigraphy of Kutch. Give the palaeogeography and tectonosedimentary setting.

**OR**

Giving an account of fauna and flora discuss the cretaceous stratigraphy of Trichinopoly.

8. Write short notes on any **FOUR** of the following:

- (a) Tertiary succession of Assain.
- (b) Spiti shales.
- (c) Permo-carboniferous exposures of
- (d) Lathi beds
- (e) Krol sequence.

9. Describe the stratigraphic sequence, fossil assemblage, environment of deposition of Siwalik group of rocks of North-Western India.

10. Write stratigraphic notes on either Fenestella shales or Gangmopteris beds.

**OR**

Discuss the present status of stratigraphy and tectonosedimentary aspect of Gondwana supergroup.