



**Final Year Examination of the  
Three -Year Degree Course, 2001**

**(Faculty of Science)**

**GEOLOGY**

**Paper-III**

**(Geology of Rajasthan and Ground Water)**

The candidates are requested to attempt **FIVE** questions in all taking at least **ONE** question from each unit.

All questions carry equal marks.

**UNIT-I**

1. Describe the various geomorphological divisions of Rajasthan and write their characteristic features.
2. Write a brief description of Delhi Supergroup of Rocks in Rajasthan with emphasis on its distribution, classification, lithology and igneous intrusions.

**UNIT-II**

3. Write a note on the Sidhrath Group and Malani Igneous Suite of Rocks of Rajasthan with special emphasis on their distribution and lithology.
4. Write short notes on the following :
  - (a) Economic importance of Marwar Supergroup of rocks.
  - (b) Classification of Vindhyan Supergroup of rocks.
  - (c) Sirohi Group.

**UNIT-III**

5. Describe in brief about the Tertiary rocks of Rajasthan indicating their classification and fossil contents.
6. Write detailed notes on the following :
  - (a) Mesozoic formation of Rajasthan.
  - (b) Hydrocarbon prospects in Tertiary rocks of Rajasthan.

#### **UNIT-IV**

7. Write short notes on the following:-

- (a) Hydrologic cycle
- (b) Types of aquifer
- (c) Permeability and Transmissibility.

8. Write a note on occurrence of ground water in igneous, metamorphic and sedimentary rocks.

#### **UNIT-V**

9. Write an essay on the ground water resources of Western Rajasthan.

10. Explain in brief the electrical resistivity method for ground water prospecting.