

Roll No. ....

Total Pages : 02

BT-3/D-19

33101

ENGINEERING GEOLOGY

CE-209 N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

1. Discuss the interior of earth and describe the crust, mantle and core of earth with a simple sketch. Also discuss the importance of studying Engineering Geology in various Civil Engineering Projects. 15
2. Discuss 'Rock Weathering' the causes of weathering. Also explain physical and chemical weathering. 15

Unit II

3. Discuss briefly the general Stratigraphy of India. 15
4. Describe the origin of Igneous, Sedimentary and Metamorphic Rocks and their texture. 15

Unit III

5. Discuss briefly, 'Preliminary Geologic Investigations'. How their knowledge is useful in engineering projects ? 15
6. Discuss the various geologic considerations, which influence, the location and design of laws. 15

Unit IV

7. Discuss the various precautions and treatments to be given for improvement of foundation rocks against faults, joints and ground water. 15
8. Discuss the effects of the following on the environment of earth : 15
  - (a) Water Table
  - (b) Deltas, waterfalls and lakes.