

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**

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**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.

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