

Roll No. ....

Total Pages : 02

BT-3/D-19

33021

ENGINEERING GEOLOGY

CE-209E

Time : Three Hours]

[Maximum Marks : 100

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

**Unit I**

1. (a) What is Geology? Why engineering geology plays an important role in civil engineering projects? **10**
- (b) Discuss interior of earth with neat sketches. **10**
2. (a) Define the term erosion and deposition? **5**
- (b) Explain the work of water with reference to weathering and erosion with neat sketches. **15**

**Unit II**

3. Write notes on the following : **20**
  - (a) Dip and strike.
  - (b) Folds.
  - (c) Fault.
  - (d) Joint.

4. What is mineral? Discuss in detail about chemical and physical properties of mineral. **20**

**Unit III**

5. Write short notes on the following : **20**
  - (a) Water table.
  - (b) Artesian well.
  - (c) Remote sensing.
  - (d) Geological report
6. Explain Dam and Reservoirs with reference to the geological condition and their influence on the : **20**
  - (a) Type and design.
  - (b) Location.
  - (c) Selection.

**Unit IV**

7. (a) Discuss the precautions and treatment against faults for improvement of foundation rock. **10**
- (b) What is a Retaining Wall? Discuss use and working with neat sketch. **10**
8. (a) Discuss the relation of geology with earth's environment. **10**
- (b) Define global warming. What is its cause and effect? **10**