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**BT-3 / D-17**

**ENGINEERING GEOLOGY**

**Paper-CE-209 N**

*Time allowed : 3 hours]*

*[Maximum marks : 75*

**Note :** The candidate is required to attempt five questions in all, taking atleast one from each Unit.

**Unit-I**

1. (a) Explain the sub division of Geology. 8  
(b) Discuss about the interior of the earth with neat sketches. 7
2. Explain the 'Work of Water' with special references to Weathering and erosion with neat sketches. 15

**Unit-II**

3. (a) Define the mineral and rock. Explain the physical properties of Mineral. 7  
(b) Explain the texture and structure of Igneous rocks, with example of Igneous rocks. 8
4. Give the elementary ideas about: 15
  - (i) Bedding Plane
  - (ii) Fold
  - (iii) Fault
  - (iv) Unconformity
  - (v) Components of fold.

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**Unit-III**

5. Explain the following with neat sketches: 15
  - (i) Interpretation of data on the base of Geological Map.
  - (ii) Artificial Recharge of ground water.
  - (iii) Remote sensing technique.
6. Explain the 'DAM' with special reference to geological conditions and stability of foundation sites of the following points:
  - (i) Geological condition and their influence.
  - (ii) Location of DAM
  - (iii) Type and Design of DAM 15

**Unit-IV**

7. Write notes on the following :
  - (a) Water table 3
  - (b) Essay on Global Warming and its effect. 12
8. (a) Describe the precaution and treatment against "faults" for improvement of foundation Rocks. 12  
(b) Write any two important features of Retaining Walls. 3

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