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**BT-3 / D-17**

**ENGINEERING GEOLOGY**

**Paper-CE-209E**

*Time allowed : 3 hours*

*[Maximum marks : 100]*

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

**Unit-I**

1. Explain the Sub-division of geology and the interior part of the Earth. 20
2. (a) Write down the Geological work of 'winds'. 10  
(b) Explain the internal geological forces. 5  
(c) Write about 'soil profile' and its importance. 5

**Unit-II**

3. Explain the following:  
(a) Texture and structure of Igneous Rocks. 10  
(b) Texture of Sedimentary Rocks. 5  
(c) Hardness Scale. 5
4. Explain the Elementary ideas about Folds and Joints with suitable diagram. 20

**Unit-III**

5. Write short notes: 5×4=20  
(a) Landslides

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- (b) Dams
- (c) Highways
- (d) Reservoirs.
6. (a) Explain the 'Remote Sensing techniques for geological survey. 10  
(b) Use of Geological Map. 5  
(c) Define: Water table and Aquifers. 5

**Unit-IV**

7. Explain the term 'Geology' and 'Environment of Earth.' How can you correlate to each other? Which divisions of Geology affects the environments mostly? Explain. 5+10+5=20
8. Give details about precautions and treatments against faults and ground water, with special reference to improvement of foundation rocks. 20

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