

Code No: 153AV

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, March - 2022

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 Hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

1. Describe in detail the importance of weathering process with reference to Dams, Reservoirs and Tunnels. [15]
2. Explain in detail some case studies with reference to the failure of major Civil engineering structures due to geological draw backs. [15]
3. What are the different methods of study of minerals? Describe in detail the physical properties of minerals for identification of minerals with examples. [15]
4. Describe in detail the common structures and Texture of Igneous Rocks. [15]
5. Write in detail various types of faults with neat sketches. [15]
6. Describe in detail the various investigations required in ground water exploration. [15]
7. What do you mean by Geophysics? Write in detail the Wenner electrode configuration and Schlumberger electrode configurations for exploration of ground water. [15]
8. What is a dam? Explain the various types of Dams with neat sketches. [15]

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