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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)  
**B.Tech III Year I Semester Supplementary Examinations August-2021**  
**ENGINEERING GEOLOGY**  
(Civil Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 What is weathering? Enumerate the various mechanisms of rock weathering. Describe chemical Weathering in detail? 12M

OR

- 2 Distinguish between weathering and erosion. Describe the various process of weathering? 12M

**UNIT-II**

- 3 What is a rock forming mineral? Discuss process of formation of minerals in nature. 12M

OR

- 4 Explain the important physical properties of minerals that are commonly studied for their identification? 12M

**UNIT-III**

- 5 Explain the classification of sedimentary rocks giving suitable example? 12M

OR

- 6 Describe the columnar, flow and sheet structures of igneous rocks. 12M

**UNIT-IV**

- 7 What is an unconformity? Describe different types of unconformity. Add a note on the Importance of Unconformity? 12M

OR

- 8 What are landslides? Describe the causes and methods to prevent them and also explain how are landslides measured? 12M

**UNIT-V**

- 9 Explain the geological structural controls on selection of dam site & also explain the methods to control reservoir silting. 12M

OR

- 10 What is a geological structure? How the geological structures are responsible for the failure of any tunnel alignment? Explain. 12M

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