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

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 Explain the brief study of case histories of failure of some civil engineering constructions due to some geological drawbacks? 12M

OR

- 2 What are the volcanoes? Enumerate and describe the different phases of volcanicity and with neat sketches. 12M

UNIT-II

- 3 Write note on different physical properties of minerals and state how these are useful in the accurate identification of the mineral species. 12M

OR

- 4 Give a detailed account on chemical composition, physical properties, origin, occurrence, engineering behavior and uses of clay minerals. 12M

UNIT-III

- 5 In what way the granite, limestone and marble are used on the basis of their civil engineering applications? Add their mechanical properties. 12M

OR

- 6 What are extrusive and intrusive igneous rocks? Describe their salient features? 12M

UNIT-IV

- 7 Explain the common types of soils their origin and occurrence in India? 12M

OR

- 8 Enumerate the various types of landslides and explain the causes of landslides and preventive measures to be taken to prevent the landslides? 12M

UNIT-V

- 9 Explain the geological factors influencing water tightness and life of reservoirs? 12M

OR

- 10 What are the various geological factors to be considered for the construction of tunnels? Explain in detail with examples? 12M

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