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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

III Year B.Tech I Semester Regular Examinations November/December 2018

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 What is meant by weathering? Discuss the role of geological agents in weathering of rocks 12M

OR

- 2 Explain the following: (a) Valley development (b) Geological work of rivers. 12M

UNIT-II

- 3 Define mineral and describe the various physical properties, which are useful in identification of mineral? 12M

OR

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

UNIT-III

- 5 Define the term "rock". Describe the classification of rocks and their characteristics 12M

OR

- 6 What are landslides? What are the causes and effects of landslides? Add a note on the preventive measures for landslides 12M

- 7 a What is meant by earthquake? What are the effects of earthquakes? 12M

- b What are the precautionary measures taken in the construction of buildings in earthquake prone zones 12M

OR

- 8 a Describe the classification and types of faults with sketches 6M

- b Enlist and explain the various types of folds with neat sketches 6M

UNIT-V

- 9 a What are the parts of a dam, types of dams and different purposes of dam Construction 6M

- b How the geological structures are responsible for the failure of any tunnel alignment? 6M

OR

- 10 a Describe the geological consideration for successful tunneling 6M

- b Explain the terms that are used in tunnels with neat sketches. Also explain the purposes of tunnelling 6M

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