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

B.Tech III Year I Semester Supplementary Examinations August-2022

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Write a brief account of the geological work done by the glaciers. L1 6M
b Explain the process associated with river. Write their engineering significance. L2 6M

OR

- 2 a Explain the process associated with winds. Write their engineering significance. L1 6M
b Explain the scope and importance of geology in civil engineering works. L2 6M

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. L1 12M

OR

- 4 Write short notes on the following . L2 12M
i) Moh's scale of hardness ii) Polymorphism iii) Isomorphism

UNIT-III

- 5 a Formation of sedimentary rocks. L1 6M
b Write about the occurrence of granite. L2 6M

OR

- 6 a What is metamorphism? Discuss the various agents of metamorphism. L1 6M
b Why heat is considered the most important agent of metamorphism. L2 6M

UNIT-IV

- 7 a Explain various investigation uses in ground water exploration. L1 6M
b Explain the engineering significance of ground water. L2 6M

OR

- 8 a Describe the various effects of an earthquake? How do we locate the epicenter of an earth quake. L1 6M
b What are surface waves? Explain Rayleigh and love waves. L2 6M

UNIT-V

- 9 a Explain the geological structural controls on selection of dam site. L1 6M
b Explain the methods to control reservoir silting. L2 6M

OR

- 10 a Explain the relationship between valley topography and types of dams. L1 6M
b List out the factors contributing to the success of a reservoir. L2 6M

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