

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech I Year I Semester Regular Examinations July- 2021
ENGINEERING MATERIALS
(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I1 Describe how bricks are classified. L1 12M

OR

2 a List out the characteristics of good building stones. L2 6Mb What are the characteristics of good tiles? L3 6M**UNIT-II**3 Describe with flow diagrams the dry and wet processes of manufacture of cement. L1 12M

OR

4 What is meant by workability of concrete? How is it tested in field and in laboratory? L4 12M**UNIT-III**5 a Differentiate between soft wood and hard wood. L2 6Mb Explain the classification of trees. L1 6M

OR

6 a Write short notes on seasoning of timber. L2 6Mb What are the differences between paints, varnishes and distemper? L2 6M**UNIT-IV**7 Explain any five rolled steel sections with neat sketches. L2 12M

OR

8 What are smart materials? Explain their applications in Civil Engineering field. L3 12M**UNIT-V**9 What are the various types of bitumen? Write in detail about their uses. L1 12M

OR

10 Explain the mechanical properties of coarse aggregates. L2 12M

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