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

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 What is meant by rock cycle? How does it represent the sequence of formation of the three important types of rocks? **L2 12M**

OR

- 2 a Write short notes on "Defects in clay bricks". **L1 6M**
b What are the different types of tiles and list out their uses? **L1 6M**

UNIT-II

- 3 a What is curing of concrete and how is it made? **L2 6M**
b State the functions of ingredients in mortar. **L1 6M**

OR

- 4 a Write short on compressive strength of concrete. **L1 6M**
b List out the precautions should be taken while storing cement? **L1 6M**

UNIT-III

- 5 a State the characteristics of good timber. **L1 6M**
b Explain the damages caused by insects on wood. **L2 6M**

OR

- 6 Describe in detail the types of defects in paint works. **L2 12M**

UNIT-IV

- 7 a Write short notes on iron. **L2 6M**
b Write short notes on rolled steel sections. **L2 6M**

OR

- 8 Write short notes on (i) Piezoelectric materials and (ii) Magneto Rheostatic fluid. **L2 12M**

UNIT-V

- 9 Explain the characteristics of good aggregates. **L2 12M**

OR

- 10 Explain the following tests for bitumen **L3 12M**
(i) Flash point and Fire point test
(ii) Softening point test.

*** END ***