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

**B.Tech II Year I Semester Regular Examinations Feb-2021**

**BUILDING MATERIALS & CONSTRUCTION**

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a List the classifications of rocks and explain the classification based on geological formation. 6M
- b What are the characteristics of good timber and its common uses in building industry? 6M

OR

- 2 Classify the bricks and explain the working of Hoffman's kiln for the burning of brick 12M

**UNIT-II**

- 3 Write briefly about any two tests conducted for workability of concrete in laboratory? 12M

OR

- 4 Write a short note on gypsum and rubber along with uses of them in daily life applications. 12M

**UNIT-III**

- 5 Briefly explain about composition and preparation of paint. 12M

OR

- 6 What is meant by aggregate impact value? Explain the test procedure to conduct aggregate impact test with neat sketch. 12M

**UNIT-IV**

- 7 a What are the functions of foundation? 6M
- b What are the requirements for good foundation? 6M

OR

- 8 Explain briefly about different types of bonds in stone masonry. 12M

**UNIT-V**

- 9 Explain briefly about different methods used for plastering on a wall. 12M

OR

- 10 Explain in detail about classification of stairs with examples. 12M

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