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

**B.Tech II Year I Semester Supplementary Examinations June 2019**

**BUILDING MATERIALS AND CONSTRUCTION**

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Explain the methods of seasoning of timber. 8M  
b Explain the method of tempering with neat sketch. 4M

**OR**

- 2 a List out all the methods of Quarrying and explain any two methods of quarrying in detail with neat sketch. 7M  
b Explain characteristics of Good Building Stone in detail. 5M

**UNIT-II**

- 3 a Briefly explain the compression test on cement concrete and Chemical composition of cement. 8M  
b Explain the basic properties of cement. 4M

**OR**

- 4 a Explain briefly the manufacturing of cement (i) Dry process (ii) Wet process 8M  
b Mention the characteristics of distemping. 4M

**UNIT-III**

- 5 a Explain, with the help of sketches, various types of shallow foundations. 8M  
b What are the requirements of a good foundation? 4M

**OR**

- 6 a With the help of neat sketches explain the Flemish bonds. 8M  
b Write a short note on Coursed rubble masonry. 4M

**UNIT-IV**

- 7 Explain various types of doors. 8M  
State briefly the essential requirements of a good roof. 4M

**OR**

- 8 a Explain the procedure of constructing the following types of flooring 8M  
(i) mosaic flooring (ii) tiled flooring  
b Explain the madras terrace roofing. 4M

**UNIT-V**

- 9 a Classify the arches according to slope. 8M  
b Briefly explain about Reinforced concrete lintels. 4M

**OR**

- 10 a Explain the types of mortars for plastering. 8M  
b Write short note on straight and metal stairs. 4M

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