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

B.Tech II Year I Semester Supplementary Examinations Nov/Dec 2019

BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a What are the classification of bricks and explain it? 6M
b Explain the sustainable materials in construction. 6M

OR

- 2 a What are the characteristics of good building stones and explain it? 5M
b What are the waste materials from buildings and how they utilize these materials? 7M

UNIT-II

- 3 a Describe the manufacturing process of glass. 5M
b How is condensation polymerization different from addition polymerization? 7M

OR

- 4 a What is polymerization and explain its mechanism? 7M
b Furnish the general properties of glass. 5M

UNIT-III

- 5 a Distinguish between the organic and inorganic insulators. 7M
b Explain the fundamentals of heat transfer. 5M

OR

- 6 a What are commonly used building insulation materials? 6M
b Give common types of sound absorbent materials. 6M

UNIT-IV

- 7 a Explain the structural components of building. 7M
b Explain the different methods of preventing dampness. 5M

OR

- 8 a Compare the merits and demerits of stone masonry and brick masonry. 7M
b Enumerate the detailed functions of a structural foundation. 5M

UNIT-V

- 9 a Furnish the different classifications of arches with sketches. 6M
b What are the different classifications of floors? Explain them. 6M

OR

- 10 a What are the different constituents of an oil paint? Describe them briefly. 7M
b What are the requirements of a good staircase? 5M

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