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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Regular & Supplementary Examinations Nov/Dec 2018
BUILDING MATERIALS & CONSTRUCTION
(Civil Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 **a** Describe the manufacturing process of bricks and explain it. 7M
b Distinguish between traditional and organic building materials with examples. 5M

OR

- 2 **a** What are the ceramic materials? Explain manufacturing process? 7M
b What are the characteristics of good building stones? Explain them. 5M

UNIT-II

- 3 **a** Explain advantage and disadvantage of glass. 7M
b How do thermoplastic differ from thermosetting materials? 5M

OR

- 4 **a** How is condensation polymerization different from addition polymerization? 5M
b Describe the chief Components of glass, giving the function of each. 7M

UNIT-III

- 5 **a** State the requirements of a good sound insulating material. 6M
b Describe the thermal properties of insulating materials. 6M

OR

- 6 **a** Specify the organic and inorganic insulators. 6M
b Furnish the sound absorbent materials generally used in practice. 6M

UNIT-IV

- 7 **a** Classify the flat roof and explain their functions. 7M
b Explain the requirements of good foundation. 5M

OR

- 8 **a** What is meant by dampness? Explain the methods of preventing dampness. 6M
b Explain the detailed functions of a structural foundation. 6M

UNIT-V

- 9 **a** What are the ingredients of paints? Explain the same with an example of each. 7M
b What are the requirements of a good staircase? 5M

OR

- 10 **a** Furnish the classification of floors and explain it. 6M
b What are the different constituents of an oil paint? Describe them briefly. 6M

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