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

B.Tech II Year I Semester Supplementary Examinations August-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 Explain methods of quarrying 6M
b Mention the factors to be considered while deciding a quarry site 6M

OR

- 2 a Explain the defects caused due to seasoning of timber 6M
b With a neat sketch, explain the parts of Bull's trench kiln. 6M

UNIT-II

- 3 a What are the properties of cement? 6M
b What are various laboratory tests performed on cement? Explain any two. 6M

OR

- 4 a Write down about Segregation and bleeding of concrete 6M
b Write about. Glass and steel 6M

UNIT-III

- 5 What are the different tests will be conducted on bitumen in laboratory, explain any two tests with necessary specifications. 12M

OR

- 6 a What is meant by soundness of aggregate explain briefly? 6M
b Differentiate between fine aggregates and coarse aggregates 6M

UNIT-IV

- 7 In detail explain about bond formation in brick masonry with neat sketch 12M

OR

- 8 What are the loads acting on foundation of a building? 12M

UNIT-V

- 9 a What is an arch give any two examples for arches? 6M
b What is lintel explain with neat sketch? 6M

OR

- 10 a Explain briefly about pointing. 6M
b Briefly explain why and where lintels are used? 6M

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