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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech II Year I Semester Supplementary Examinations August-2022****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 objects of preservation of timber? Explain the defects caused due to seasoning of timber. L2 6M
- b Explain various quarrying methods of stone along with their importance. L2 6M

OR

- 2 a What are the characteristics of good timber and its common uses in building industry? L1 6M
- b With a neat sketch, explain the parts of Bull's trench kiln. L2 6M

UNIT-II

- 3 a What are various laboratory tests performed on cement? Explain any two. L2 6M
- b Briefly explain about setting time of cement. L1 6M

OR

- 4 a Write briefly about workability of concrete and explain the tests associated with it. L2 6M
- b In detail explain about mixing and vibration of concrete. L1 6M

UNIT-III

- 5 a What is meant by soundness of aggregate explain briefly? L1 6M
- b With neat sketch explain in detail about crushing test on aggregates. L2 6M

OR

- 6 a Briefly explain about painting on wood surface and metal surface. L1 6M
- b What are the different tests will be conducted on bitumen in laboratory? Explain any two tests with necessary specifications. L2 6M

UNIT-IV

- 7 a How the foundation will be laid for a building, explain briefly. L1 6M
- b What are the different types of foundations based on depth, explain them with neat sketch. L2 6M

OR

- 8 a Differentiate between brick and stone masonry. L2 6M
- b What are remedial measures to be taken in order to prevent foundation failures? L1 6M

UNIT-V

- 9 a Briefly explain why and where lintels are used. L2 6M
- b What are the different terms used in stair case explain them with neat diagram? L2 6M

OR

- 10 a What is an arch? List the different types of arches. L1 6M
- b What are the different types of mortars used for plastering explain in detail? L1 6M

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