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Code No: 114CK

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2015 BUILDING MATERIALS, CONSTRUCTION AND PLANNING (Common to CE, CEE)

Time: 3 Hours Max. Marks: 75 Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART- A (25 Marks) 1.a) What do you mean by quarrying? [2M]b) Enumerate various uses of timber. [3M]Write short notes on Hydration of cement. c) [2M](l) What are various types of cement? [3M] Define the following terms; Head room, Landing, Nosing, Pitch and Step. [2M] e) Write various failures of an arch. f)[3M] What are the precautions to be taken in latarite masonry work? (3) [2M]h) Explain the various types of strip footing. [3M]i)Write the Building bye-laws for offsets. [2M]i) Write short notes on Building bye-laws for lighting and ventilation. [3M]PART-B (50 Marks) 2. With the help of a neat sketch, explain the working of Hoffman's kiln for the burning of bricks. OR 3.a) Explain different types of defects in timber. 6) Explain defects due to seasoning. [5+5]4. How the tensile strength of cement is determined in laboratory? [10]OR 5. What is meant by proportioning of concrete? What are the various methods of proportioning concrete? Explain any two methods. [10]Discuss in detail the types of roofs. 6.a) How do you classify the foundations? Explain. b) [5+5]

What are the essentials of Air -conditioning and explain the types?

What are "breathing" and "non-breathing" types of paints? What are the 8. considerations in application of these paints to the ceiling under the wet areas and wall surfaces? (4) OR Write short on the following: 9. a) Scaffolding. b) Underpinning. [5+5] Explain the building bye-laws with reference to: 10. a) Open space requirements b) Plinth area regulations c) Height limitations. [4+3+3]OR Classify the buildings. Explain. 11. [10]

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