

II B. Tech I Semester Supplementary Examinations, January - 2023 BUILDING MATERIALS, CONSTRUCTION AND PLANNING

(Civil Engineering) Time: 3 hours Max. Marks: 75 Answer any FIVE Questions, each Question from each unit All Questions carry Equal Marks UNIT-I a) Recall the different tests conducted on bricks and explain any two tests. [8M] 1 b) List out the properties of stone with the structural requirements. [7M] Or 2 a) What points would you apply to ensure strength, pleasant and comfort in stone in [8M] masonry construction? Recall the composition of good brick and various manufacturing methods with neat [7M] b) sketches. UNIT-II a) Explain the significance of bonding in brickwork. Explain by sketches the [8M] 3 difference between the English bond and the Flemish bond. State the Characteristics of good tile with examples. [7M] b) Or 4 a) Sketch the alternative courses of the first-class brick wall in English bond and state [8M] its essential requirements. b) What is the seasoning of timber? Discuss the defects in timber with neat sketches. [7M] UNIT-III 5 a) Explain the importance of damp proofing and waterproofing materials in building [8M] construction. b) List out Various ingredients of cement concrete and their importance. [7M] Or a) List the ingredients of lime. Describe various methods of manufacturing lime. [8M] 6 b) Discuss the alliterative materials for wood. [7M] **UNIT-IV** a) List various types of cement and various field and laboratory tests for cement. 7 [8M] b) What is the specific need for fibre-reinforced concrete? Brief different types of [7M] fibres used in concrete. Or a) List different types of floors. Explain Mosaic and Terrazzo floors with neat [8M] 8 sketches. b) Sketch King and Queen post Trusses with all components. [7M] UNIT-V 9 a) List the ill effects of dampness in the building. Discuss with examples. [8M] b) Discuss various defects in plastering. [7M] Or 10 a) Explain the bulking of the sand phenomenon with examples. [8M] b) Explain the Bulk Density, porosity and absorption and Moisture content of [7M] Aggregate.

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