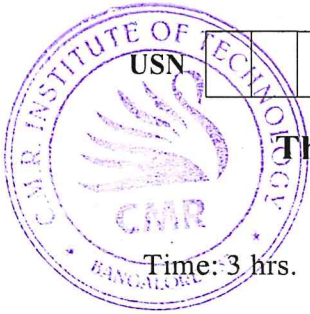


CBCS SCHEME



17CV36

Third Semester B.E. Degree Examination, Aug./Sept.2020 Building Materials and Construction

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What are the qualities of good building stone? Discuss them. (08 Marks)
- b. Explain Bricks classification. (06 Marks)
- c. What are the advantages of Conc block over bricks? (06 Marks)

OR

- 2 a. Explain Mortar classification in detail. (08 Marks)
- b. Explain defective timber. (06 Marks)
- c. Explain the requirements of good bricks. (06 Marks)

Module-2

- 3 a. Define Foundation. Explain different types of foundation with suitable sketches. (10 Marks)
- b. Explain English Bond Flemish Bond with suitable sketches. (10 Marks)

OR

- 4 a. Explain different types of stone masonry with suitable sketches. (10 Marks)
- b. Find dimension of a combined rectangular footing for two column A and B carrying a load of 500 kN and 750 kN. Column A 300×300mm, Column B 400×400 mm in size centre to centre of column is 3.4 mts SBC of soil 150 kN/m². Width of footing is limited to 1.8m. (10 Marks)

Module-3

- 5 a. What is a lintel? Explain different types of lintel. (10 Marks)
- b. Draw a typical segmental Arch and explain various elements of Arch. (10 Marks)

OR

- 6 a. Explain the classification of Arches with sketches. (10 Marks)
- b. Draw typical section of
(i) RCC Lintel
(ii) RCC Lintel with chajja projection. (10 Marks)

Module-4

- 7 a. Define door and windows. (06 Marks)
- b. Explain different types of Doors. (07 Marks)
- c. Write a note on (i) Scaffolding (ii) Shoring (07 Marks)

OR

- 8 a. Write a note on Types of windows and explain briefly each type. (07 Marks)
- b. What do you mean by underpinning? How do you active this? (06 Marks)
- c. What are the requirements of good stair? (07 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

CMRIT LIBRARY
BANGALORE - 560 037

Module-5

- 9 a. Explain methods of plastering in details. (07 Marks)
b. Explain types of paints. (07 Marks)
c. What is pointing explain with sketches. (06 Marks)

OR

- 10 a. What are the defects in painting? (07 Marks)
b. Explain different types of plaster finishes. (07 Marks)
c. What are the defects in plastering? (06 Marks)

CMHI LIBRARY
BANGALORE - 560 037