



CBCS SCHEME

15CV36

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

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain the characteristics of good building stones. (04 Marks)
b. What is meant by dressing of a stone? Describe its various varieties. (08 Marks)
c. Briefly explain the terms used in bricks : i) Compressive strength ii) Water absorption. (04 Marks)

OR

- 2 Distinguish between :
a. Concrete blocks and stabilized mud blocks.
b. Fine Aggregate and Coarse Aggregate.
c. Flakiness Index and Elongation Index.
d. Moisture content and Deleterious materials. (16 Marks)

Module-2

- 3 a. Write the objectives of the foundations. (04 Marks)
b. Explain in detail the plate load test for determining safe bearing capacity of soil. (06 Marks)
c. List the types of foundations. Explain any one of them. (06 Marks)

OR

- 4 a. With neat sketches, discuss the features of English and Flemish Bond Brick Masonry. (08 Marks)
b. List any four commonly used building stones and state their suitability in construction. (04 Marks)
c. Write a short note on Cavity wall. (04 Marks)

Module-3

- 5 a. Explain the functions of Chejja , Canopy and Balcony. (06 Marks)
b. How do you select the flooring materials? Explain it. (04 Marks)
c. List the classification of Arches. Explain with neat sketches of any one method. (06 Marks)

OR

- 6 a. Draw a neat sketch of Typical RCC Floor and explain its functions. (06 Marks)
b. With the help of neat sketch, explain components of king post truss. (06 Marks)
c. Write a short note on Pitched roof. (04 Marks)

Module-4

- 7 a. What are the functions and applications of doors , windows and ventilators? (08 Marks)
b. What is Form work? Write the essential requirements of form work. (04 Marks)
c. Give a brief note on Applications of Scaffoldings. (04 Marks)

OR

1 of 2

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.

- 8 a. State briefly the requirement of a good stair. Discuss them in detail. (04 Marks)
b. Discuss the types of stair with sketches. (08 Marks)
c. Write a short note on :
i) Shoring ii) Underpinning. (04 Marks)

Module-5

- 9 a. Explain the purpose of plastering. Explain the various types of mortars used for plastering. (08 Marks)
b. Discuss the defects in plastering. How to minimize the defects in plastering work? (08 Marks)

OR

- 10 a. What is Damp proof course? Explain its necessity in building. (08 Marks)
b. Mention the characteristics of an ideal paint. (04 Marks)
c. Describe the procedure of painting on New and Old wood work. (04 Marks)
