



Term Evaluation (Odd) Semester Examination September 2025

Roll no.....

Name of the Course: Diploma/ Civil Engg.

Semester: IIIrd

Name of the Paper: Building Construction

Paper Code: DTCE-302

Time: 1.5 hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1.

CO1 (10 Marks)

a. Explain in detail the various uses of stone masonry in civil engineering construction. Discuss the criteria for selection of good stones, considering strength, durability, and economy, with examples.

OR

b. List and describe the different tools used in stone masonry work. Illustrate their functions with neat sketches and explain how they assist in dressing and laying of stones.

Q2.

CO1 (10 Marks)

a. State and explain the general principles to be observed in brick masonry construction.

OR

b. Discuss the significance of bonds in brickwork, and elaborate on the commonly used bonds such as English and Flemish bond with neat sketches.

Q3.

CO1(10 Marks)

a. Write detailed notes on the following:

- i) Characteristics of good timber and its suitability for construction
- ii) Engineered wood products such as plywood and particle board – composition, uses, and advantages.

OR

b. What are the various defects in timber, describe with neat sketches.

Q4.

CO2 (10 Marks)

a. Explain with neat sketches the different types of shallow foundations such as isolated footings, combined footings, and raft foundation.

OR

b. Describe in detail the pumping method of dewatering used in foundation works.

Q5.

CO2 (10 Marks)

a. Explain the concept of cofferdams, their types, and applications in construction of deep foundations.

OR

b. Define bearing capacity of soil. Explain the different methods used for determining bearing capacity in the field.