

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2025**

CONSTRUCTION MATERIALS AND ENGINEERING

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

I. (Answer **all** questions in one or two sentences. Each question carries 2 marks)

1. Define dressing of stones.
2. Name the ingredients of cement concrete.
3. Define veneer.
4. Define prestressed concrete.
5. Define the term Foundation.

(5 x 2 = 10)

PART-B

[Maximum Marks: 30]

II. (Answer **any five** of the following questions. Each question carries 6 marks)

1. Explain quarrying by blasting.
2. Define the manufacturing process of lime.
3. Explain the characteristics of plastic.
4. Distinguish between Flemish bond and English bond in masonry.
5. Explain the good requirements of stair.
6. Describe the technical terms of arch with figure.
7. Explain the difference between the brick and stone masonry.

(5 x 6 = 30)

PART-C

[Maximum Marks: 60]

(Answer **one** full question from each Unit. Each full question carries 15 marks)

UNIT – I

- III. a. Explain the composition of brick earth. (7)
- b. Define workability. Explain the factors effecting Workability. (8)

OR

- IV. a. Describe the defects of timber due to Natural forces. (8)
b. Explain the uses and properties of copper. (7)

UNIT – II

- V. a. Explain the ingredients of paint. (8)
b. Briefly describe the different wood products. (7)

OR

- VI. a. Explain the uses of cork. (8)
b. Describe the characteristics of varnish. (7)

UNIT- III

- VII. a. Explain the requirements of good formwork. (7)
b. What are the advantages and disadvantages of hollow block masonry? (8)

OR

- VIII. a. What are the causes of dampness? (7)
b. Explain the methods of damp proofing course. (8)

UNIT - IV

- IX. a. Explain the different components of building. (8)
b. What are the good requirements of flooring? (7)

OR

- X. a. What are the requirements of ceiling? (7)
b. Explain the different types of lintels. (8)
