

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2021**

CONSTRUCTION MATERIALS AND ENGINEERING

[Maximum Marks: 75]

[Time: 2.15 Hours]

PART-A

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

- I. 1. What is the composition of brick?
2. What is slaked lime?
3. List any two types of glass.
4. What is DPC?
5. Write any two building components. (3 x 2 = 6)

PART-B

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

- II. 1. What are the different types of tiles?
2. What is the composition of cement?
3. What are the properties of cork?
4. What are the advantages of English bond over Flemish bond?
5. What is the proportion for plastering?
6. What is the effect of dampness?
7. What are the functions of foundation? (4 x 6 = 24)

PART-C

(Answer *any of the three units* from the following. Each full question carries 15 marks)

UNIT – I

- III. (a) Explain classification of stones. (8)
(b) What is the manufacture of brick earth? (7)

OR

- IV. (a) What is seasoning of timber? What are the methods of seasoning? (8)
(b) What are the properties of cement concrete? (7)

UNIT – II

- V. (a) What are the constituents of paints? (8)
(b) Explain different aluminium sections used in construction. (7)

OR

- VI. (a) What are the properties of rubber? (8)
(b) What are the different forms of bitumen? (7)

UNIT- III

- VII. (a) What are the causes of dampness. (8)
(b) What are the requirements of formwork? (7)

OR

- VIII. (a) Explain the defects in plastering. (8)
(b) What are the different methods of shoring? (7)

UNIT - IV

- IX. (a) Explain in detail about collapsible doors and rolling shutters. (8)
(b) What are the requirements of a good floor? (7)

OR

- X. (a) Explain pile foundation and well foundation. (8)
(b) Explain any two types of windows. (7)
