

TED (15/19) - 3011
(REVISION-2015/19)

N23 - 6629

Reg.No.....
Signature.....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2023**

CONSTRUCTION MATERIALS AND ENGINEERING

(Maximum Marks:100)

(Time: 3 Hours)

PART - A
(Maximum Mark : 10)

Marks

I. Answer all the questions in one or two sentences. Each question carries 2 marks.

1. What is the mean by Calcination?
2. List out any four properties of Distemper.
3. What do you mean by Corbel and Copping?
4. Differentiate closer and bat.
5. What do you mean by ridge of a roof?

(5 x 2 = 10)

PART - B
(Maximum Mark: 30)

II Answer *any five* questions from the following. Each question carries 6 marks.

1. Explain the classification of igneous rocks.
2. Explain the wet process of cement manufacturing process.
3. Write down the properties and uses of asphalt.
4. What are the requirement of formwork?
5. What are the causes of dampness?
6. What are the component parts of an Arch?
7. Explain the requirements of a good floor.

(5 x 6 = 30)

P.T.O

PART – C

(Maximum mark: 60)

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

UNIT - I

- III (a) Write short notes on bulking of sand. (6)
(b) How do you determine the workability of concrete by slump test? (9)

OR

- IV (a) With the help of a neat sketch, explain the structure of timber. (7)
(b) Explain the seasoning of timber. (8)

UNIT – II

- V (a) Write short notes on (i) Bitumen (ii) Veneers (iii) Plywood (7)
(b) What are the properties of Rubber? (8)

OR

- VI (a) Describe the characteristics of good varnish. (6)
(b) What are the characteristics of ideal paint? (9)

UNIT – III

- VII (a) What are the different methods of pre stressing? (6)
(b) Explain the methods of shoring. (9)

OR

- VIII (a) Differentiate English bond and Flemish bond. (6)
(b) What are the different types of pointing? (9)

UNIT – IV

- IX (a) Explain different types of windows. (6)
(b) Discuss on classification of stair. (9)

OR

- X (a) Discuss on types of ceiling. (6)
(b) Explain the component parts of building. (9)

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