

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019

CONSTRUCTION MATERIALS AND ENGINEERING

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. What is meant by curing ? List out any four methods of curing.
2. Define Seasoning. What are the objects of Seasoning ?
3. What are Abrasives ? Give two examples for abrasives.
4. Distinguish between Single and Double Flemish bond.
5. Define the terms (a) Head room (b) Going.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. What are the characteristics of a good building stone ?
2. Define Workability. What are the factors affecting workability ?
3. Write down the properties and uses of Asphalt.
4. Explain classification of Glass.
5. List the advantages of hollow block masonry.
6. Discuss the defects in plastering.
7. What are the requirements of a good floor ?

(5×6 = 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 'dry process' of mixing of raw materials in cement manufacturing. 8
 (b) Explain the characteristics of a good preservative. 7

OR

- IV (a) Explain the properties and uses of Cast Iron. 8
 (b) Explain briefly the process of manufacturing of bricks. 7

UNIT — II

- V (a) Describe types of paint. 8
 (b) Write short notes on PVC, Adhesives and Asbestos. 7

OR

- VI (a) Discuss the characteristics and Ingredients of Varnish. 8
 (b) Write down the properties and uses of rubber. 7

UNIT — III

- VII (a) Describe different methods of underpinning. 8
 (b) Explain different types of partitions. 7

OR

- VIII (a) Discuss the different methods of damp prevention. 8
 (b) Write down the advantages and disadvantages of prestressing. 7

UNIT — IV

- IX (a) Explain different types of doors. 8
 (b) Write short notes on Sunshade, Sunbreakers and Canopies. 7

OR

- X (a) Discuss on Classification of Stairs. 8
 (b) Describe different types of lintels. 7