

2690**Code : 20CE11T**Register
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I Semester Diploma Examination, March/April-2022**CONSTRUCTION MATERIALS****Time : 3 Hours]****[Max. Marks : 100**

- Instructions :** (i) Answer **one** full question from each section.
(ii) **One** full question carries **20** marks.

SECTION – I

1. (a) Write the characteristics of a good building stone. **10**
(b) Explain the geological classification of rocks. **10**
2. (a) Define quarrying. Explain the process of quarrying by blasting. **10**
(b) List and explain the cause of decay of stones. **10**

SECTION – II

3. (a) With a neat sketch explain the structure of timber. **10**
(b) List the general properties of a good timber. **10**
4. (a) Explain the process of tempering of clay using pug mill. **10**
(b) Explain Hoffman's kiln with a neat sketch. **10**

SECTION – III

5. (a) List the properties and uses of aerated concrete blocks. **10**
(b) List the properties and uses of Glazed tiles. **10**
6. (a) Explain the burning process of cement with a neat sketch. **10**
(b) Explain the grinding of cement using ball mill with a neat sketch. **10**



SECTION – IV

3

7. (a) List the different types of cement and mention their uses. 10
(b) Write the properties and uses of 10
(i) Steel
(ii) Copper
8. (a) What are the properties and uses of plaster of Paris ? 10
(b) Explain the properties and uses of FRP (Fiber Reinforced Plastic). 10

SECTION – V

9. (a) What are the properties of a good paint ? Mention the ingredients of paints. 10
(b) What are the uses of 10
(i) Varnish
(ii) M – Sand
10. (a) Briefly explain the Termite Proofing process. 10
(b) Write a short note on 10
(i) Shot crete
(ii) Geopolymer cement
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