

7083**Code : 20CE11T**Register
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I Semester Diploma Examination, February/March-2023**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 Geological classification of stones with example. **6**
(b) Explain the causes of deterioration of stones. **6**
(c) What is Quarrying ? Explain Quarrying of stone by Blasting with a neat sketch. **8**
2. (a) Write the uses and properties of River sand. **6**
(b) List the properties of a good timber. **6**
(c) What are the characteristics of a good building stone ? **8**

SECTION – II

3. (a) List the various defects in timber. Explain any one. **8**
(b) List the objects of seasoning of Timber. **6**
(c) Draw a neat sketch and explain structure of Timber. **6**
4. (a) List the different tests conducted on Bricks. Explain any one. **6**
(b) Mention the properties of Good Building Bricks. **6**
(c) Draw a neat sketch and explain clamp burning of bricks. **8**

SECTION – III

5. (a) List the different types of tiles used for flooring. Explain any one. 6
(b) What are the characteristics of Good tiles ? 6
(c) Write properties and uses of Aerated Concrete Blocks. 8
6. (a) What are the types of Glasses ? Explain any one. 6
(b) Write the characteristics of Cement. 6
(c) List the different types of cement. Explain any one. 8

SECTION – IV

7. (a) Write the comparison between Cast Iron and Aluminum. 10
(b) What is an Alloy ? Name the different types of alloys and explain any one. 10
8. (a) What is meant by Plaster of Paris (POP) ? List the properties and applications of POP. 10
(b) List the objects of painting and what are the characteristics of oil borne paint. 10

SECTION – V

9. (a) What is M-Sand ? State the uses of M-Sand. 6
(b) Briefly explain : 6
(i) Geo Grids
(ii) Ferro Crete
(c) State the uses and properties of varnish. 8
10. (a) List the types of water proofing materials. Explain any one. 6
(b) What are the properties and uses of Gypsum ? 6
(c) Write the properties and uses of Geo Polymer Concrete. 8
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