

1569**Code : 20AR11T**Register
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I Semester Diploma Examination, June/July-2023**MATERIALS OF CONSTRUCTION****Time : 3 Hours]****[Max. Marks : 100**

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

SECTION – I

1. (a) Distinguish between granite and marble stone. $5 \times 1 = 5$
(b) Write the uses of stones as an engineering material. $5 \times 1 = 5$
(c) Classify the Rocks Geologically and explain in detail. $3 + 7 = 10$

OR

2. (a) Discuss engineering aspects of timber. $5 \times 1 = 5$
(b) What are the advantages of artificial seasoning ? $5 \times 1 = 5$
(c) Illustrate the method of seasoning of timber. $2 + 4 + 4 = 10$

SECTION – II

3. (a) List the properties and uses of fly ash bricks. $3 + 2 = 5$
(b) Explain the raw materials for manufacturing bricks. 5
(c) Classify the bricks based on classes. $2 + 8 = 10$

OR

4. (a) List the engineering aspects of bricks. $5 \times 1 = 5$
(b) Discuss the properties & uses of refractory bricks. $3 + 2 = 5$
(c) What are the requirements of good brick ? $10 \times 1 = 10$



SECTION – III

5. (a) List the engineering aspects of lime. $5 \times 1 = 5$
(b) Define natural cement & artificial cement. $2.5 + 2.5 = 5$
(c) Explain various types of lime. $3 + 7 = 10$

OR

6. (a) Illustrate the functions of mortar. $5 \times 1 = 5$
(b) Explain the ingredients of cement concrete. $2 + 8 = 10$
(c) List the sources of fine and coarse aggregate. $2.5 + 2.5 = 5$

SECTION – IV

7. (a) List the properties of mild steel. $5 \times 1 = 5$
(b) Write the properties of copper. $5 \times 1 = 5$
(c) Explain the types of cast iron. $2 + 8 = 10$

OR

8. (a) What are the properties & uses of aluminium alloys ? $3 + 2 = 5$
(b) Name the market forms of copper, zinc and tin. $2.5 + 2.5 = 5$
(c) Explain the properties and uses of Zinc and Tin. $3 + 2 + 3 + 2 = 10$

SECTION – V

9. (a) List the objects of varnish. $5 \times 1 = 5$
(b) Discuss the ingredients of paints. $4 + 6 = 10$
(c) What are the characteristics of varnish ? $5 \times 1 = 5$

OR

10. (a) Explain the properties & uses of UPVC. $3 + 2 = 5$
(b) Explain briefly (any five) types of glass. $5 \times 2 = 10$
(c) Define and list the uses of acrylic flooring. $2 + 3 = 5$