

2687**Code : 20AR11T**Register
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I Semester Diploma Examination, March/April-2022**MATERIALS OF CONSTRUCTION****Time : 3 Hours]****[Max. Marks : 100****Instruction :** Answer **all** the sections.**SECTION – I**

1. (a) List the uses of stones as an engineering material. $1 \times 5 = 5$
(b) Define Artificial stones. 5
- OR**
2. (a) What are the qualities of good brick ? $1 \times 6 = 6$
(b) Define Flyash bricks. 4
3. (a) How the market forms of timber are classified ? $2 + 4 = 6$
(b) Name the sources of lime. $1 \times 4 = 4$
- OR**
4. (a) What are the properties and uses of cast iron ? $3 + 2 = 5$
(b) Which are the ingredients used in a good paint ? $1 \times 5 = 5$

SECTION – II

5. (a) Explain briefly the classification of rocks. $2 + 6 = 8$
(b) Compare the solid cement concrete blocks and hollow cement concrete block. $3 + 4 = 7$
- OR**
6. (a) Explain how trees are classified. $3 + 5 = 8$
(b) Summarize the composition of ordinary cement. $3 + 4 = 7$
7. (a) Illustrate the market forms of cast iron with their engineering application. $3 + 5 = 8$
(b) Outline the ingredients of varnishes. $4 + 3 = 7$
- OR**
8. (a) Compare between Hardwood and softwood. $1 \times 8 = 8$
(b) Explain briefly the ingredients used in cement concrete. $3 + 4 = 7$



SECTION – III

9. (a) Identify a precautionary steps to be taken in storing a cement. $1 + 5 = 6$
(b) Identify the market forms of copper alloys with their engineering application. $2 + 2 = 4$

OR

10. (a) Apply the appropriate properties and uses of plywood in construction field. $3 + 2 = 5$
(b) Identify the properties and uses of fibre reinforced plastics. $3 + 2 = 5$
11. (a) Select any two types of stones and explain their properties and uses. $4 + 4 = 8$
(b) Identify the ingredients of varnishes and explain their functions. $3 + 4 = 7$

OR

12. (a) Choose any five types of bricks based on shape and explain it with the help of sketch. $5 \times 2 = 10$
(b) Select any one types of industrial AP timber with their properties and uses. $3 + 2 = 5$

SECTION – IV

13. (a) Distinguish between Granite and Marble. $1 \times 5 = 5$
(b) List the types of refractory bricks with their uses. $3 + 2 = 5$

OR

14. (a) List the functions of Mortar. $1 \times 6 = 6$
(b) List the properties and uses of aluminium. $2 + 2 = 4$
15. (a) Classify the methods of reasoning of timber. $3 + 4 = 7$
(b) Compare initial and final setting time. $4 + 4 = 8$

OR

16. (a) Categorize the different types of Glass. $4 + 6 = 10$
(b) Distinguish between particle board and black board. $1 \times 5 = 5$

