7022

Code : 20AR11T

Register Number: 4 5 7 A R 2 2 0 1 9

I Semester Diploma Examination, February/March-2023

MATERIALS OF CONSTRUCTION

Time : 3 Hours]   **[Max. Marks : 100**

Instruction :   Answer **all** questions.

SECTION – I

1.	(a)	Define Terrazzo blocks.	4
	(b)	List the characteristics of good stone.	$1 \times 6 = 6$

OR

2.	(a)	What are the requirements of good bricks ?	$1 \times 6 = 6$
	(b)	Name the various sources of fine aggregates.	$1 \times 4 = 4$
3.	(a)	List the properties of good timber.	$1 \times 5 = 5$
	(b)	Which are the market forms of steel ?	$1 \times 5 = 5$

OR

4.	(a)	Name the ingredients of good paint.	$1 \times 5 = 5$
	(b)	What are the objects of Varnish ?	$1 \times 5 = 5$

SECTION – II

5.	(a)	Classify the rocks based on Geological.	$3 + 4 = 7$
	(b)	Compare between stabilized soil blocks and fly ash bricks.	$4 + 4 = 8$

OR

6.	(a)	Summarize composition of ordinary cement.	$3 + 4 = 7$
	(b)	Compare between Exogeneous and Endogeneous trees.	$4 + 4 = 8$

7.	(a)	Illustrate the market forms of Aluminium.	$3 + 4 = 7$
	(b)	Explain briefly the ingredients of cement concrete.	$4 + 4 = 8$

OR

8. (a) Outline the ingredients of paint. $4 + 4 = 8$

    (b) Explain the properties and uses of Fibre Rain forced Plastics. $4 + 3 = 7$

SECTION – III

9. (a) Choose any two types of stones and explain their properties and uses. $3 + 3 = 6$

    (b) Identify the market forms of Zinc with their engineering application. $1 + 3 = 4$

OR

10. (a) Identify the properties and uses of Linoleum sheet. $2 + 2 = 4$

    (b) Select any two types of industrial timber with their properties and uses. $3 + 3 = 6$

11. (a) Construct a precautionary steps to be followed for Natural seasoning of timber. $3 + 4 = 7$

    (b) Choose any four types of bricks bared on shape and explain it with the help of sketch. $4 + 4 = 8$

OR

12. (a) Identify the ingredients of cement concrete with its function. $4 + 4 = 8$

    (b) Apply the appropriate properties and uses of particle board. $3 + 4 = 7$

SECTION – IV

13. (a) List the functions of Mortar. $1 \times 6 = 6$

    (b) List the properties and uses of copper. $2 + 2 = 4$

OR

14. (a) Distinguish between Solid and Hollow Cement Concrete Blocks. $3 + 3 = 6$

    (b) Compare between natural and artificial cement. $2 + 2 = 4$

15. (a) Categorize the different types of glass. $4 + 6 = 10$

    (b) Distinguish between laminates and veneers. $1 \times 5 = 5$

OR

16. (a) Classify the various types of Lime. $3 + 7 = 10$

    (b) Categorize the raw materials used for manufacturing bricks. $2 + 3 = 5$

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