10

MGALORE



CBCS SCHEME

17CT33

(12 Marks)

(08 Marks)

Third Semester B.E. Degree Examination, Dec.2019/Jan.2020 Materials of Construction

Time: 3 hrs.		3 hrs.	Max. Marks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from	n each module.
		Module-1	
1	a.	List the qualities of a good building stone.	(10 Marks)
	b.	Explain the structure of the timber with the help of a neat sketch.	(10 Marks)
		OP	
2	0	OR Compare clamp burnt bricks and kiln burnt bricks.	(10 Mayla)
2	a. b.	Explain different methods of artificial seasoning of timber.	(10 Marks) (10 Marks)
	υ.	Explain different methods of artificial seasoning of timber.	(10 Marks)
		Module-2	
3	a.	With the help of a flow chart, explain the manufacturing of cement by l	Dry process.
			(10 Marks)
	b.	Compare Fat Lime and Hydraulic Lime.	(10 Marks)
		OR	
4	a.	Compare intermittent Flame Kiln and intermittent Flair Kiln.	(10 Marks)
	b.	Explain the procedure to conduct the following laboratory test on ceme	
		i) Fineness of cement ii) Normal consistency.	(10 Marks)
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		Module-3	#
5	a.	Explain Hardening, Tempering and Annealing method of heat treatmer	
	b.	List the properties and uses of the following: i) Commercial Glass ii) (
			(08 Marks)
		OR	
6	a.	List the properties and application of	
		i) Wrought Iron ii) Stainless stell iii) Copper iv) Lead.	(12 Marks)
	b.	Briefly explain compounding of rubber.	(08 Marks)
		Module-4	
7	a.	List the desirable properties of electrical insulators. Give example.	(10 Marks)
	b.	Explain the ingredients of oil borne paint.	(10 Marks)
		OR	
8	a.	List the desirable properties of thermal insulators. Give example.	(10 Marks)
O	b.	What is a varnish? List characteristics of an ideal varnish. Explain	ALS 46 870 200
		varnish.	(10 Marks)
0	•	Module-5 Printly avalain the properties of plastic	(10 Martzs)
9	a. b.	Briefly explain the properties of plastic. What are refractories? List the desirable properties of refractories.	(10 Marks) (10 Marks)
	υ.	what are remactories: List the desirable properties of remactories.	(10 Marks)
		OP	

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Briefly explain the various classification of plastic.

Write a note on: i) Neural Refractory materials ii) Cer – met.