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SET -1

II B. Tech I Semester Supplementary Examinations, May/June - 2017 BUILDING MATERIALS AND CONSTRUCTION

(Civil Engineering)

Time: 3 hours

Code No: RT21014

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)
2. Answer ALL the question in Part-A
3. Answer any THREE Questions from Part-B

PART -A

1.	a)	List out the characteristics of a good tile.	(4M)
	b)	Explain decay of timber.	(4M)
	c)	What are the various uses of lime.	(3M)
	d)	What is a vault? Explain with sketches.	(4M)
	e)	Indicate the type of paints used for old wood work and new iron work.	(4M)
	f)	Prepare a list of various tests for concrete.	(3M)

PART -B

2.	a)	Discuss the three important types of rocks and their formation.	(8M)
	b)	Explain the constituents of lime stone.	(8M)
3.	a)	Describe Ashlar stone masonry and state its use in construction of structures.	(8M)
	b)	Draw the cross section of a tree and explain the structure of timber.	(8M)
4.	a)	Discuss about alternative materials for wood.	(10M)
	b)	Explain bulking of sand.	(6M)
5.	a)	Explain the following items in case of staircases (i) Balustrade (ii) Handrail	(8M)
		(iii) soffit and (iv) pitch	
	b)	Explain coupled roof with sketch.	(8M)
6.	a)	Explain pointing and plastering	(8M)
	b)	Describe the various components of a building.	(8M)
7.		Write short notes on	(16M)
		(a) Properties of good building stone.	
		(b) Consistency and workability	
		(c) Tar and bitumen as building material	
		(d) Sieve analysis	