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LOCICAL DINETERS

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FOURTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL

Course Code: CE204

Course Name: CONSTRUCTION TECHNOLOGY

Iax. Marks: 100

Duration: 3 Hours

Ma	x. M	arks: 100 Duration: 3	Hours		
		PART A			
		Answer any two full questions, each carries 15 marks	Marks		
1	a)	What is meant by plywood? How is it manufactured?	(3)		
	b)	Explain the different types of mortars used in construction.	(4)		
	c)	State the requirements of reinforcement steel.	(4)		
	d)	Explain the uses of plastics and allied products in construction.	(4)		
2	a)	Define: i) Grade of concrete ii) Fineness modulus of aggregate	(3)		
	b)	Explain the mechanism of action of plasticizers in concrete.	(3)		
	c)	List the various tests to be conducted on aggregates, indicating the purpose.	(4)		
	d)	Explain the method of determination of grading of aggregates.	(5) (3)		
3	a)				
	b)	What are the provisions in IS 456 to ensure durability of concrete?	(3)		
	c)	How will you conduct compaction factor test on fresh concrete?	(4)		
	d	Explain the steps in making concrete, indicating various operations.	(5)		
		PART B			
		Answer any two full questions, each carries 15 marks			
4	a)	Distinguish between bearing pile and friction pile.	(3)		
	b)	Sketch a typical steel grillage foundation. What are the circumstances under	(4)		
	- \	which the same is adopted.	(1)		
	c)	What do you understand by composite masonry? List the different types.	(4) (4)		
_	d)				
5	a)	Define the term partition wall. List the requirements to be fulfilled by a partition Wall.			
	b)	Explain the different types of scaffolding.	(6)		
	c)	Explain the method of construction of rat- trap bond using bricks.	(6)		
6	a)				
Ū	b)	Explain the essential requirements of a floor.	(3) (6)		
	c)	Define: i) Common rafters ii) Pitch and iii) Purlins	(6)		
	-)	PART C	()		
		Answer any two full questions, each carries 20 marks			
7	a)	What are the advantages of framed structures?	(6)		
	b)	Explain the requirements of a form work used in concrete structures	(6)		
	c)	What are the advantages of welding over riveting or bolting	(4)		
	d)	Explain the advantages of prefabrication in construction	(4)		
8	a)	What are construction joints? Give examples	(6)		
	b) Explain the method of slip form construction				
	c)	Explain the design criteria of elevator service in a tall building	(4)		
9	a)	Explain the causes of deterioration of reinforced concrete structures	(8)		
	· b)	Explain the terms: i) Retrofitting ii) Cosmetic Repair	(6)		
	c)	What are the materials used for retrofitting of concrete structures?	(6)		
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