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Reg No.:	 WALAN TECHNOLOGICAL UNIVERS

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fourth semester B.Tech examinations (S), September 2020

Course Code: CE204
Course Name: CONSTRUCTION TECHNOLOGY (CE)

Max. Marks: 100

Duration: 3 Hours

			PART A Answer any two full questions, each carries 15 marks	Marks		
-	1	a)	Define seasoning of timber. Why this is required? Explain the methods of	6		
	1	a)	natural seasoning.			
		1.	How steel is classified based on its carbon content?	3		
			Discuss the important types of glasses and their uses in construction industry	6		
		c)	Discuss the important types of glasses and then are	3		
	2	a)	How will you classify sand on the basis of its source? Why is it necessary to compact freshly laid concrete? Explain the methods used			
		b)		5		
			for compaction.	7		
		c)	What are admixtures? Explain its types and uses.	5		
	3	a)	What are the factors affecting workability of concrete?	10		
		b)	Explain the mix proportioning of concrete by BIS method.	10		
			PART B			
			Answer any two full questions, each carries 15 marks	10		
	4	a)	Explain the various types of foundations with neat sketches.	5		
		b)	What are cavity walls? What are its advantages?	7		
	5	a)	What is scaffoldings? Explain its types.			
		b)	What is DPC? With neat sketches explain how it is provided at different levels	8		
			of a building.	5		
	6	a)	Enumerate the essential requirements of a good floor.			
		b)	State the purpose of using arches in buildings. With neat sketches explain its	_		
			classification on the basis of shape.	7		
		c)	What is distempering? List down the desirable properties of a good distemper.	3		
			PART C			
Answer any two full questions, each carries 20 marks						
	7	a	Draw a typical cross-section of a stair. Label and explain the parts.			

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	b)	Write a short note on slip form construction.	5
	c)	Discuss the advantages and disadvantages of steel framed structures.	5
8	a)	Write short notes on	
		i) Elevators ii) Escalators iii) Ramp	10
	b)	What are the advantages of steel formwork over wooden formworks?	5
	c)	Explain the mistakes leading to cracking/collapse of structure due to poor	5
		workmanship.	
9	a)	Discuss the general reasons for the failure of buildings.	10
	b)	Explain the major techniques used for retrofitting RCC slabs.	10
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