Reg No.:_____

Name:____

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

Marks

PART A

Answer any two full questions, each carries 15 marks

1	a)	Define seasoning of timber. Why this is required? Explain the methods of	6
		natural seasoning.	
	b)	How steel is classified based on its carbon content?	3
	c)	Discuss the important types of glasses and their uses in construction industry	6
2	a)	How will you classify sand on the basis of its source?	3
	b)	Why is it necessary to compact freshly laid concrete? Explain the methods used	
		for compaction.	5
	c)	What are admixtures? Explain its types and uses.	7
3	a)	What are the factors affecting workability of concrete?	5
	b)	Explain the mix proportioning of concrete by BIS method.	10
		PART B	
		Answer any two full questions, each carries 15 marks	
4	a)	Explain the various types of foundations with neat sketches.	10
	b)	What are cavity walls? What are its advantages?	5
5	a)	What is scaffoldings? Explain its types.	7
	b)	What is DPC? With neat sketches explain how it is provided at different levels	
		of a building.	8
6	a)	Enumerate the essential requirements of a good floor.	5
	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.	10

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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
