Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FOURTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

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

Max. Marks: 100 Duration: 3 Hours

PART A

Answer any two full questions. Each question carries 15 marks.

1	a)	What are the different market forms of timber used in construction industry?	6
	b)	What is an admixture? Explain the properties and uses of admixtures in concrete.	9
2	a)	What is mortar? Explain the different types of mortars used in civil constructions.	9
	b)	What is meant by curing of concrete? Discuss the different methods of curing of	6
		concrete.	
3	a)	Explain the different market forms of steel with neat sketches. Where they are	6
		used?	
	b)	Write the steps involved in BIS method of concrete mix design.	9
		PART B	
		Answer any two full questions. Each question carries 15 marks.	
4	a)	Enumerate in detail the preliminary considerations in the selection of foundations.	5
	b)	What is an arch? What are the different types of arches?	5
	c)	Write a note on the different types of roofs used in buildings.	5
5	a)	Explain different types of stone masonry with neat sketches	9
	b)	What is DPC? Explain the different methods of providing DPC to a residential	6
		building.	
6	a)	Explain, with neat sketches a) Filler slab b) Rat Trap bond masonry	8
	b)	List the various types of flooring materials and the criteria for their choice.	7
		Explain the construction of Timber Floor.	
		PART C	

Answer any two full questions. Each question carries 20 marks

7 a) What are the advantages and disadvantages of tall buildings?6b) What are the different modes for vertical transportation? Explain the components 9 of an escalator with neat sketch.

	c)	What are different types of failures of a building? List out the general reasons for	5
		a building collapse.	
8	a)	Distinguish between RCC framed buildings and steel framed buildings	6
	b)	List out the different types of stairs used in buildings, with neat sketches.	6
	c)	What are the causes of failure in RCC structures? Explain with neat sketches	8
9	a)	Explain the advantages of precast concrete construction.	6
	b)	What are the methods of Retrofitting of RCC beams?	8
	c)	What are the causes of foundation failures?	6