Reg No.:\_\_\_\_\_

Name:\_\_\_\_\_

## **APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY** FOURTH SEMESTER B.TECH DEGREE EXAMINATION(S), DECEMBER 2019

## Course Code: CE204 Course Name: CONSTRUCTION TECHNOLOGY

Max. Marks: 100

**Duration: 3 Hours** 

## PART A

		Answer any two full questions, each carries 15 marks	Marks
1	a)	How is plywood manufactured? Discuss its classification and uses.	9
	b)	What are the properties and uses of glass?	6
2	a)	Define workability of concrete. What are the factors that affect workability?	9
	b)	Discuss the advantages and disadvantages of steel as a construction material.	6
3	a)	Explain the various tests done on hardened concrete.	9
	b)	Describe briefly the various processes in the manufacturing of concrete.	6
		PART B	
		Answer any two full questions, each carries 15 marks	
4	a)	When are pile foundations preferred? Explain various types of piles.	9
	b)	Explain the cavity wall construction with a neat sketch. State its advantages.	6
5	a)	What are the requirements of a good roofing material? Explain the factors to be	9
		considered in the selection of a roof material.	
	b)	What are the advantages of (1) filler slab technology and (2) rat trap bond?	6
6	a)	What are the functions of a lintel? Explain its various types with neat sketches.	9
	b)	Distinguish between plastering and pointing.	6
		PART C	
		Answer any two full questions, each carries 20 marks	
7	a)	What are the advantages and disadvantages of RCC and steel framed structures?	10
	b)	List the requirements of a good formwork. Describe various types of formwork.	10
8	a)	What are the processes involved in prefabrication? State the advantages and	10
		disadvantages of prefabrication.	
	b)	What are the various causes of failure in steel structures? Explain.	10
9	a)	Explain the various techniques for achieving earthquake resistance in buildings	10
		with neat sketches.	
	b)	Explain the various methods of retrofitting RCC slab with neat sketches.	10