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		APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FOURTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019	
		Course Code: CE204 Course Name: CONSTRUCTION TECHNOLOGY (CE)	
N	lax. N	Marks: 100 Duration: 3	Hours
		PART A Answer any two full questions, each carries 15 marks	Marks
1	a)	What are the various types of reinforcing steel? Explain its properties.	9
	b)	What are the properties and uses of aluminium?	6
2	a)	Explain the steps involved in BIS method of concrete mix design.	9
	b)	List the requirements of good building stones.	6
3	a)	What is the role of water in concrete? Explain the significance of testing its quality.	9
	b)	Discuss the role of aggregates in concrete.	6
		PART B	
		Answer any two full questions, each carries 15 marks	
4	a)	Explain various types of shallow foundations with neat sketches.	9
	b)	Compare brick and stone masonry.	6
5	a)	What is pointing? Explain its various types with neat sketches.	9
	b)	Enumerate the requirements of partition walls.	6
6	a)	Explain various types of sloped roofs with neat sketches.	9
	b)	List the requirements of an ideal paint.	6
		PART C	
		Answer any two full questions, each carries 20 marks	
7	a)	Explain the various types of structural systems with neat sketches.	10
	b)	What is construction joint? Explain its various types with sketches.	10
8	a)	Write a short note on slip form construction. What are its advantages?	10
	b)	What are the various causes of failure in RCC structures? Explain.	10
9	a)	Write a note on failure of structures due to wind and fire.	10
	b)	Explain the various methods of retrofitting columns with sketches.	10

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

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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

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

Max. Marks: 100

7

Duration: 3 Hours

Marks

		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
		natural seasoning.	
	1	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	2 2) How will you classify sand on the basis of its source?	3
	ł) Why is it necessary to compact freshly laid concrete? Explain the methods used	
		for compaction.	5
	С) What are admixtures? Explain its types and uses.	7
3	a	and the first and affecting workshility of concrete?	5
2	b	the second s	10
		PART B	
		Answer any two full questions, each carries 15 marks	10
4	a)	Explain the various types of foundations with neat sketches.	
	b)	What are cavity walls? What are its advantages?	5
5	a)	What is scaffoldings? Explain its types.	7
5	,	What is DPC? With neat sketches explain how it is provided at different levels	
	b)		8
		of a building.	5
6	a)	Enumerate the essential requirements of a good floor. Enumerate the essential requirements of a good floor.	
	b)	Enumerate the essential requirements of buildings. With neat sketches explain its State the purpose of using arches in buildings.	7
		classification on the basis of shape.	3
	c)	Classification on the basis of import What is distempering? List down the desirable properties of a good distemper.	5
	0)	DART C	
		Answer any two full questions, each carries 20 marks	10
7	a)	Answer any two full questions, end 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