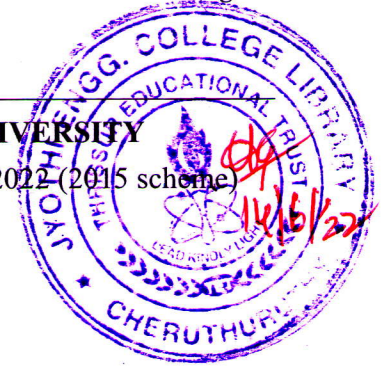Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fourth Semester B.Tech Degree (S,FE) Examination June 2022 (2015 scheme)

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)	Explain the classification, properties and uses of plastics in construction.	9
	b)	What are the different types of mortar? Mention the advantages of each type.	6
2	a)	List various chemical admixtures. Explain the properties and uses of any two.	9
	b)	Enumerate the various uses of steel in construction.	6
3	a)	List the various factors affecting the workability of concrete. Explain any three.	9
	b)	Explain the terms, characteristic strength and target strength in mix design.	6

PART B
Answer any two full questions, each carries 15 marks

4	a)	Elucidate how filler slab roof and rat trap bond technologies help in achieving the cost effectiveness in buildings.	9
	b)	Explain in detail, the various factors affecting the choice of foundation type.	6
5	a)	Explain various types of combined footings with sketches. When are combined footings preferred?	9
	b)	State the advantages and disadvantages of flat roof and sloped roof.	6
6	a)	List the various materials used for floor covering. Explain any two stating its merits and demerits.	9
	b)	Explain the various objectives of plastering.	6

PART C
Answer any two full questions, each carries 20 marks

7	a)	Explain the various materials used for formwork stating its merits and demerits.	10
	b)	How is the layout of a staircase designed? State the requirements of a good staircase.	10
8	a)	Explain the requirements and the process of erection of steel work.	10
	b)	Write a note on the failure of framed buildings and load bearing masonry buildings due to earthquake.	10
9	a)	List the various causes of failures in steel structures. Explain any three.	10
	b)	Explain the various methods of column strengthening with sketches.	10

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