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02000CE204052002 Reg No.: Name: APJ ABDUL KALAM TECHNOLOGICAL UNIVERSIT

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

Fourth Semester B.Tech Degree (S,FE) Examination August 2021 (2015 Scheme)

Max. Marks: 100 **Duration: 3 Hours**

PART A Answer any two full questions, each carries 15 marks Marks a) Explain any three structural steel sections with its specifications. 8 b) Discuss the classification of bitumen and their uses in construction industry. 4 c) Differentiate between particle board and fibre board. 3 3 2 What are the ingredients used to prepare a mortar? Explain the types of mortars based on the binding materials used. b) What is batching? List the methods. 3 9 Write a short note on any three tests conducted on aggregates. What is the main objective of concrete mix proportioning? How will you find 3 5 out the target strength for designing concrete mix as per BIS procedure? 10 b) Define workability? Explain any two tests conducted on fresh concrete to assess workability. PART B Answer any two full questions, each carries 15 marks What is foundation? List the purposes of a good foundation. 5 10 b) Explain the different types of stone masonry with neat sketches. Define the term Cost- effective construction. Describe filler slab and rat-trap 5 a) 8 bond masonry in detail. 7 b) Explain the classification of lintels on the basis of materials used. What are pitched roofs? Draw a neat sketch to indicate any one pitched roof. 5 6 a) 6 b) Define i) Sill ii) Style and iii) Sash bar. Define plastering. State the purpose for which plastering is taken up. 4 PART C Answer any two full questions, each carries 20 marks 7 What are formworks? What are the requirements of a good formwork? 8

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	b)	Explain prefabricated construction? Discuss its advantages and disadvantages.	10
	c)	What are shear walls?	2
8	a)	List the types of joints required for large concrete structures. Explain the design	
		requirements of any two joints using neat sketches.	10
	b)	Explain the classification of stairs with neat sketches.	10
9	a)	Explain the causes of failures in RCC and Steel structures.	10
	b)	Explain the major techniques used for retrofitting RC beams.	10
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