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	Question Paper Code: 12288	
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	M.E./M.Tech. DEGREE EXAMINATIONS, JANUARY 2022.	
	Elective	
	Structural Engineering	
	ST 4004 – PREFABRICATED STRUCTURES	
	(Regulations 2021)	
Time	: Three hours Maximum : 100 marks	
	Answer ALL questions.	
	PART A — $(10 \times 2 = 20 \text{ marks})$	No.
1.	Explain in detail disuniting of prefabricates elements.	1
3.	List out the forces Induced during the transportation of precast elements. Distinguish between one way and two way prefabricated slabs. List the materials used for connection in precast elements.	h
	Give the maximum allowable deflection limit for roof slabs under short term oads.	
6.	Explain the codal recommendations for reinforcement in joints with their	
	requirements.	
7.]	Discuss the factors associated with curtain walls.	
8. (Give the short note on sandwich wall panel.	1
	List out the instability failure modes for prefabricated concrete shell structures.	
10.	Draw the neat sketches of different types of roof truss in industrial buildings.	le be
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