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Roll	I No.	Total No. of Pages: 01
Tota	al No. of Questions: 08	
	M.Tech. Civil Engg (EL-I) (2016 Batch) INDUSTRIAL STRUCTURE Subject Code: MTCE-211 Paper ID: [74304]	•
Tim	ie: 3 Hrs.	Max. Marks: 100
INST 1. 2.	TRUCTION TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWENTY marks.	
Q1.	a) What are the factors that govern the choice of roofs for	Industrial Buildings? [10]
	b) Draw a typical layout plan for a steel manufacturin ventilation can be planned in an industrial building?	g industry. Also explain how [10]
Q2.	Explain the procedure of design of silo.	[20]
Q3.	Explain in detail the design steps for Industrial frame.	[20]
Q4.	Discuss in detail about Transmission line towers.	[20]
Q5.	Explain step by step procedure in the design of steel dome. Also explain the loads that would be considered in the design. [20]	
Q6.	Design a Circular elevated Steel water storage tank for a height of the tank bottom above the ground level is 8.7m columns and situated at the railway station in Kanpur.	

Q8. Write note on:

stresses as 120 N/mm² and 90 N/mm².

Q7.

a) Load buckling of compression element. [10]

A self supporting chimney is of effective height equal to 30 m, having its diameter at top

equal to 2 m. Design the chimney taking a uniform wind pressure intensity of 1.5 kN/m² throughout the height. Assume uniform values of permissible tensile and compressive

b) Sandwich plate construction. [10]

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