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	I No. Total No. of Pages al No. of Questions : 08	: 01
M.Tech.(SE) (Sem.–2) INDUSTRIAL STRUCTURES Subject Code: CE-508 Paper ID: [E1302]		
Tim	e: 3 Hrs. Max. Marks:	100
 INSTRUCTION TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWENTY marks. Assume data suitably, if not given. 		
1.	What are various elements of an Industrial building? Explain any Five with sketches	. (20)
2.	(a) Determine the bursting forces on the bunker and pressure on trough walls rectangular steel bunker of length $11m$ and $6.0m$ width resting on 8 columns to material having bulk density of $8kN/m^3$ and angle of internal friction = 30° . height of hopper = $3m$ and height of vertical portion = $4.45m$.	store
	(b) Explain 'Wind Bracing' with sketch.	(4)
3.	Write procedure (step wise) for designing an elevated cylindrical tank with cobottom bringing out the formulas and criteria/codal clauses.	onical (20)
4.	Give design procedure for various components of pressure vessels. Draw ske wherever possible.	tches, (20)
5.	Show with sketch, various components of RCC Chimney. Discuss accessories in brid	ef. (20)
6.	What are functions of cooling towers? How are these designed? What are the provisions for cooling towers?	codal (20)
7.	Explain with neat sketches the guidelines of Machine Foundations, with referent structural, constructional & other considerations.	(20)
8.	Write short notes on:	
	a) Design of silos	(10)

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b) Peak wind approach vis-à-vis Mean wind approach