Time: 3 Hours

Maximum Marks: 70

B.Tech. Civil (Construction Management)

Term-End Examination June, 2012

ET-581(C): BUILDING SERVICES

Attempt any five questions. All questions carry Note: equal marks. Give neat sketches wherever required. 7 Describe types of sedimentation tanks. 1. (a) Compute the dimensions of a continuous flow rectangular settling tank for a population of twenty thousand persons with a daily per capita water allowance of 135 litres. Take detention period as 5 hours. The maximum daily demand is 1.8 times that of average daily demand. Assume surface overflow rate as 15 m³ /day/m². What are the types of disinfectant used in 7 (b) water supply? Explain the action of chlorine. Describe hardness of water. Explain any 7 2. (a) one method of removal of permanent hardness of water. Describe hydraulic testing of pipe sewers. (b) 7

3.	(a)	composting.	7
	(b)	Explain various methods of wiring in buildings.	7
4.	(a)	How a building structure is protected against explosive or highly inflammable materials?	7
	(b)	Discuss the design of earthing system provided in buildings.	7
5.	(a)	Explain how dehumidification of moist air is carried out?	7
	(b)	Write a note on ventilation.	7
6.	(a)	Explain how preconstruction anti-termite treatment is carried out ?	7
	(b)	What is the composition of paints? Explain each in detail.	7
7.	(a)	Describe the following:	7
		(i) Fire load	
		(ii) Fire resistance	
		(iii) Fire severity	
	(b)	Discuss safety devices provided in elevators.	7

- 8. Write short notes on the following: $4x3\frac{1}{2}=14$
 - (a) Maintenance of water distribution system.
 - (b) Electrical distribution system
 - (c) Staircase.
 - (d) Population forecast.