No. of Printed Pages: 2

ET-581(C)

7

7

7

00929

B.Tech. Civil (Construction Management)

Term-End Examination December, 2011

ET-581(C): BUILDING SERVICES

Time: 3 hours Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks. Give neat sketches wherever required.

1. (a) What are various parameters to test quality of potable water?

The population data of a town in various years is given below. Forecast the population in 2011.

Year	1971	1981	1991	2001
Population (thousand)	90	135	189	257

Use decrease rate of growth method.

- (b) Differentiate coagulation and flocculation. Explain Jar test.
 - Explain Jar test.
- 2. (a) Explain how following are removed from water:
 - (i) Iron and manganese
 - (ii) Fluorides
 - (b) Explain Prechlorination, Post chlorination, 7 Rechlorination and Dechlorination.

3.	(a)	(i) BOD (ii) COD	7
		(iii) TDS	
	(b)	Write a note on disposal of treated effluent.	7
4.	(a)	Discuss factors affecting the design of power supply scheme.	7
	(b)	Describe basic electric safety rules.	7
5.	(a)	Explain various components of a staircase:	7
	(b)	What are the safety devices of an elevator? How the handling capacity of lift is estimated?	7
6.	(a)	What are the effects of lightning discharge? How a building is protected against lightning?	7
	(b)	What are the methods of earthing? Explain any one in detail.	7
7.	(a)	Explain various water proofing treatments.	7
	(b)	What are the causes of corrosion of metals? Describe preventive measures.	7
8.	(a)	Describe fire triangle in the context of combustion.	7
	(b)	How a fire damaged building is evaluated for the effect of fire? What precautions should be taken while examining such buildings?	7