B.Tech. Civil (Construction Management)

Term-End Examination June, 2010

ET-581(C): BUILDING SERVICES

Note: Attempt any five questions. All questions carry equal marks. Give neat sketches wherever required.		
	(b)	Describe the maintenance of ground level 7 water tanks.
2.	(a)	Discuss various methods for the disposal of solid waste. Explain vermi composting.
	(b)	Describe following with neat sketches: 7 Drop man-hole, Inverted siphon, intercepting trap.
3.	(a)	Discuss the various parameters for the 7 design of power supply scheme.
	(b)	What do you mean by illumination? 7 Discuss Wein's law and Stefen Boltzman's law with respect to incandescent lamps.

4. Name different types of staircases. Plan a (a) 7 dog legged stair for a residential building in which the vertical distance between the floors is 3.6 m. The hall measures $2.5 \text{ m} \times 6 \text{ m}$. (b) Discuss various aspects considered for 7 determining the capacity and number of lifts to achieve a desired quality of service. 5. (a) Discuss the effects of lightening discharge. 7 How a building is protected against lightening? What are the objectives of ventilation? How (b) 7 the ventilation requirement is estimated? 6. (a) What are the modern building chemicals for 7 improving water tighteners? Discuss the causes of corrosion. What is fire load? (b) How fire can be 7 controlled in high rise buildings? 7. Write short notes on any four of the following: $4x3\frac{1}{2}=14$ Specifications of filter sand (a) (b) Construction of sewers (c) Methods of wiring (d) Role of escalators (e) Natural ventilation

(f)

Physics of fire