

24804

**B. Tech. 5th Semester (Fire Tech & Safety) F-Scheme
Examination, December-2017**

**ENVIRONMENTAL ENGINEERING AND
MANAGEMENT**

Paper-FT-307-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any five questions in total, one question must be attempted from each section. Question No. 1 is compulsory.

1. (a) What are the effects of air pollution on living thing?
- (b) What are the chemical characteristics of the waste water?
- (c) What do you mean by Hazardous waste?
- (d) What is clean development mechanism? $5 \times 4 = 20$

Section-A

2. What are the source of air pollution' its effect and how will you classify the pollutant? 20
3. Explain the following term :
 - (a) Gaussian Plume Dispersion Model
 - (b) Biological Method for Voc and odour. 10,10

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Section-B

4. Explain the biological unit processes in the waste water. 20
5. Explain the working principle and application of anaerobic filter. 20

Section-C

6. What do you mean by Hazardous waste with definition and classification? What are the effect of this waste on health and environment? 20
7. Explain the following term :
- (a) Collection and transportation of urban solid waste.
 - (b) Anaerobic Digestion. 10,10

Section-D

8. Write the short note on following :
- (a) Concept of Industrial ecology
 - (b) Life cycle assessment. 10,10
9. Explain the principle and requirement of ISO 14001 EMS.