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B. Tech. 5th Semester (Fire Tech.) Examination,

December-2015

**ENVIRONMENTAL ENGINEERING AND
MANAGEMENT**

Paper-FT-307-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question No. 1 is compulsory. Attempt any five questions selecting at least one question from each section.

1. (a) What are the sources of air pollution ?
- (b) What are the effects of pollutants on the quality of water ?
- (c) What are the sources and composition of solid waste ?
- (d) Explain the concept of Industrial ecology. 20

Section-A

2. What do you mean by air pollution, their sources and its effect. How do you classify the pollutants ? 20
3. Explain the Gaussian plume dispersion model in detail. 20

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Section-B

4. Explain the Anaerobic treatment system in detail. 20
5. Explain the physical unit operations in waste water treatment. 20

Section-C

6. Explain the different disposal option of solid waste. 20
7. What is hazardous waste and explain their legal frame work in India ? 20

Section-D

8. Explain the following :
 - (a) Life Cycle Assessment
 - (b) Clean Development Mechanism. 10×2=20
9. What should be the strategies for pollution prevention ? 20