

III B. Tech II Semester Supplementary Examinations, November/December - 2016
ENVIRONMENTAL POLLUTION AND CONTROL
(Civil Engineering)

Time: 3 hours

Maximum Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answering the question in **Part-A** is compulsory
 3. Answer any **THREE** Questions from **Part-B**

PART -A

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| 1 | a)What is ISO 14000? What are the series of standards in ISO 14000 family? | [3M] |
| | b)Explain the concept of CETP. Give the advantages. | [4M] |
| | c)Describe the characteristics of municipal solid waste. | [4M] |
| | d)What is environmental sanitation? What are the targets of sanitation? | [3M] |
| | e)Define hazardous wastes. Which characteristic of wastes makes them hazardous? Give examples. | [4M] |
| | f)Define sustainable development. Briefly explain the elements of sustainable development. | [4M] |

PART -B

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|---|---|------|
| 2 | a)Explain the working principle of Electrostatic Precipitator with a neat sketch. What are its advantages and disadvantages? | [8M] |
| | b)How do you control residential and industrial noise | [8M] |
| 3 | a)What are the purposes served by neutralization? Explain any three methods for neutralizing acid and alkaline wastes. | [8M] |
| | b)Define equalization. What are the purposes served by equalization? Explain various methods of mixing wastes to affect equalization. | [8M] |
| 4 | a)Explain sanitary land filling method of solid waste disposal. What are the advantages and disadvantages of land filling? | [8M] |
| | b)What is the purpose of incineration of solid wastes? With a neat diagram explain incineration process. What are the advantages and disadvantages of incineration? | [8M] |
| 5 | a)What steps you take to maintain sanitary and hygienic conditions in Hospitals and Institutions? | [8M] |
| | b)Explain various methods for safe disposal of solid and liquid wastes of a village. | [8M] |
| 6 | a)Describe the classification of biomedical wastes. Discuss procedures adopted for the safe disposal of biomedical wastes. | [8M] |
| | b)Define E-wastes. Explain various methods adopted for the management of E-wastes. | [8M] |
| 7 | a)Describe various strategies to be adopted for sustainable development. | [8M] |
| | b)Write a detailed note on barriers to sustainability. | [8M] |

