

Code No: RT32016A

R13

SET - 1

III B. Tech II Semester Supplementary Examinations, November - 2017**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 compulsory3. Answer any **THREE** Questions from **Part-B**

PART -A

- 1 a) What are the control equipments for particulate matter? [4M]
- b) What do you mean by Neutralization and Equalization? [4M]
- c) What are the characteristics of solid waste? [4M]
- d) What is environmental sanitation? [3M]
- e) Write short note on biomedical waste. [4M]
- f) What are the elements of sustainable development? [3M]

PART -B

- 2 a) What are primary and secondary pollutants? Give examples. [4M]
- b) Name and discuss four methods of controlling particulate emissions at the source. [8M]
- c) Give the Ambient Air Quality Standards in respect of noise as specified under Environmental Protection Act, for various zones for day and night times in dB. [4M]
- 3 a) Explain various methods for the strength reduction of industrial wastewater with suitable examples. [8M]
- b) Briefly explain various methods of treatment of industrial waste water. [8M]
- 4 a) Explain the collection, separation and processing of solid waste. [8M]
- b) Explain any four methods for disposal of solid waste. [8M]
- 5 a) Explain various methods for safe disposal of solid and liquid wastes of a village. [8M]
- b) What are the environmental sanitation methods for Hostels, Hotels and Hospitals? [8M]
- 6 a) Explain treatment and disposal methods for nuclear waste. [8M]
- b) Define E-wastes. Explain various methods adopted for the management of E-wastes. [8M]
- 7 a) Write a detailed note on barriers to sustainability. [6M]
- b) Write a brief note on challenges faced in achieving sustainable development. [6M]
- c) Explain the term-"sustainable industrialization". [4M]
