

Code No: **PT41011****R13****Set No. 1****IV B.Tech I Semester Regular/Supplementary Examinations, October/November - 2017**  
**ENVIRONMENTAL POLLUTION AND CONTROL****(Civil Engineering)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B*

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**PART-A (22 Marks)**

1. a) What are the sources of air pollutants? [3]
- b) What is the benefit of Equalization in waste water treatment? [4]
- c) What is the importance of source segregation? [4]
- d) What are the strategies to be considered in rural sanitation? [4]
- e) Briefly explain the disposal of electronic waste. [4]
- f) What is meant by sustainable development? [3]

**PART-B (3x16 = 48 Marks)**

2. a) Write an account on effects and control methods of air pollution. [10]
- b) Explain the methods used for reducing residential noise. [6]
3. a) What are the pollution controlling strategies for industrial waste water management? [10]
- b) What is the role played by common effluent treatment plant? [6]
4. a) Write a detailed note on solid waste management. [8]
- b) Write a short note on (i) Incineration and (ii) Compositing. [8]
5. a) Explain the sanitation methods adopted for swimming pools and bathing ghats. [8]
- b) What is meant by environmental sanitation? Explain the low cost waste disposal methods. [8]
6. a) Write about treatment and management of chemical wastes. [8]
- b) Write a detailed note about biomedical waste management. [8]
7. a) Write a short note on (i) Barriers to sustainability and (ii) Cleaner production in achieving sustainability. [8]
- b) Write a short note on (i) Indicators of sustainable development and (ii) Industrialization and sustainable development. [8]