

III B. Tech II Semester Supplementary Examinations, November - 2018

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) List out the particulate control devices. [3M]
- b) State the necessity of recirculation of industrial wastes. [4M]
- c) Discuss the basic characteristics of solid waste management. [4M]
- d) Enumerate the methods of Environmental Sanitation for hospitals and Hotels [4M]
- e) Classify the various hazardous wastes along with their impacts. [3M]
- f) What are the various factors governing the attainment of sustainable development? [4M]

PART -B

- 2 a) Explain the provisions in ISO 14000 about reducing industrial and Residential Noise. [8M]
- b) Discuss about the measurement and control methods adopted for reducing industrial noise pollution. [8M]
- 3 a) Discuss about the common Effluent Treatment plants [8M]
- b) Explain the salient features of Neutralization and their significance in proper treatment of industrial wastewater. [8M]
- 4 a) Discuss the basics of onsite handling and collection of Solid waste [8M]
- b) Explain the importance of solid waste management with respect to sustainable development. [8M]
- 5 Explain the environmental sanitation methods for [16M]
 - i) Hostels
 - ii) Swimming Pools and Bathing Places
 - iii) Marriage and Function Halls
 - iv) Schools and Institutions
- 6 a) Bring out the characteristics of nuclear waste with two case studies. [8M]
- b) Discuss the electronic waste (management and disposal) rules of 2011 [8M]
- 7 a) Define Sustainable development. Explain sustainability strategies. [8M]
- b) Explain how clean and environment friendly production methods will help in achieving sustainable development [8M]

