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B TECH
(SEM-VII) THEORY EXAMINATION 2017-18
INDUSTRIAL POLLUTION CONTROL AND ENVIRONMENTAL AUDIT

Time: 3Hours**Max. Marks: 100****Note:** Attempt all Sections. Assume missing data, if any.

SECTION A

1. Attempt all questions in brief. 10 x 2 = 20

- a. What are basis properties of industrial waste?
- b. Discuss the effect of noise pollution and radiation emission.
- c. Explain the waste water treatment methods.
- d. What do you understand E- waste?
- e. Water is the various industrial processes requiring water.
- f. What are the risks with hazardous waste?
- g. Name the industries which require high quantity of water.
- h. Mention the ill effect of radiation emission.
- i. Define municipal solid waste.
- j. Enumerate the different sources of air pollution.

SECTION B

2. Attempt any three of the following: 10 x 3 = 30

- a. How to control and removal of chemicals such as cyanide fluoride and toxic organics performed.
- b. Explain Du-Pots provided activated carbon process in detail.
- c. What are the main steps which must be taken to reduce the water consumption?
- d. What is land fill? Which type of waste is allowed to be disposed off into a land fill as per solid management rule (2000).
- e. Explain dewatering of the sludge in details.

SECTION C

3. Attempt any one part of the following: 10 x 1 =10

- (a) Differentiate between absorption and adsorption.
- (b) Discuss about the treatment of liquid effluent from petro chemical industry.

4. Attempt any one part of the following: 10 x 1 = 10

- (a) What are the recent trends in industrial waste management?
- (b) Draw a neat sketch of an oil/grease trap and discuss its functioning.

- 5. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) Discuss the noise effects of noise pollution. What are the different methods to control it?
(b) What do you understand by environmental audit? Give the checklist of activities for an environmental audit work.
- 6. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) Describe the various pollution control acts frame by government of India to control the pollution.
(b) Write short note on:-
i. Greenbelt development
ii. Rain water harvesting.
- 7. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) Write short note on ISO and ISO 14000.
(b) Describe briefly cradle to grave concepts?