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Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
(SUPPLEMENTARY) EXAMINATION, NOVEMBER 2014**

CE/PTCE 09 804 L 22—ENVIRONMENTAL POLLUTION CONTROL ENGINEERING

Time : Three Hours

Maximum : 70 Marks

Part A*Answer all questions.*

1. (a) Define environmental pollution.
- (b) What are radioactive materials ?
- (c) What is the working principle of settling chamber ?
- (d) Define noise pollution.
- (e) Define environmental impact assessment.

(5 × 2 = 10 marks)

Part B*Answer any four questions.*

2. (a) Explain how water quality changes by domestic use.
- (b) Write short notes on restoration of water bodies.
- (c) What are the components of electrostatic precipitator ?
- (d) What are the basic approaches for air pollution control strategy ?
- (e) What are the sources of noise pollution ?
- (f) Classify the air act with respect the source of air-pollution.

(4 × 5 = 20 marks)

Part C*Answer all questions.*

3. (a) Discuss the thermal effect on man and his environment.

Or

- (b) Describe the various water pollution surveys.

4. (a) A fabric filter is to be constructed using bags of 0.3 m. in diameter and 6 m. long. The bag house is to receive 800 m³/min. of air. Determine the no. of bags required for a continuously cleaned operation.

Or

- (b) Describe with neat sketch the working of settling chamber.

Turn over

5. (a) Discuss the various noise reduction methods in an industrial plant.

Or

(b) Describe the various ecological aspects of vegetation control.

6. (a) Describe the major state and central laws on the protection of environment and chemical safety.

Or

(b) Describe the various land pollution laws and regulations.

(4 × 10 = 40 marks)