

CRASH COURSE

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10CV765

Seventh Semester B.E. Degree Examination, May 2017 Air Pollution and Control

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Define Air Pollution. Write in brief about Point source, Arial source, Stationary source , Mobile source and Line source in brief. (10 Marks)
b. Write a brief note on photochemical Smog and coal induced Smog. (10 Marks)
- 2 a. Explain the effects of air pollution on :
i) Human beings and ii) Materials. (10 Marks)
b. Discuss in detail the London Smog and Bhopal gas tragedy. (10 Marks)
- 3 a. With neat sketches, explain plume behaviour in different atmospheric conditions. (10 Marks)
b. Write a note on Lapse rate and inversions. (10 Marks)
- 4 a. Briefly explain the factors considered for industrial plant location. (10 Marks)
b. Write a note on sources of noise pollution, effects and remedial measures to control noise pollution. (10 Marks)

PART – B

- 5 a. Explain with a neat sketch, the sampling train. (10 Marks)
b. Explain with neat sketches, the principle and working of the following :
i) Fabric filters ii) Gravitational settling chambers. (10 Marks)
- 6 a. Briefly explain methods to minimize the automobile exhaust emission. (10 Marks)
b. Explain briefly the principle emission from petrol driven vehicles. (05 Marks)
c. Explain the role of catalytic convertor in controlling emissions from automobiles. (05 Marks)
- 7 a. Define Indoor Air Pollution , Causes , Effects and Remedial measures. (10 Marks)
b. Write short notes on :
i) Ozone layer depletion ii) Global warming. (10 Marks)
- 8 Write short notes on the following :
a. Environmental policy.
b. National Ambient Air Quality standards.
c. Acid Rain.
d. Noise pollution standards. (20 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.