

USN

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

10CV765

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
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. Explain primary and secondary air pollutants with examples. (10 Marks)
- b. Distinguish between Photo chemical smog and Coal induced smog, with examples. (10 Marks)
- 2 a. Explain the effects of Air pollution on human health. (10 Marks)
- b. List the major air pollution episodes. Explain briefly Bhopal gas tragedy. (10 Marks)
- 3 a. With neat sketch, explain plume behaviour in different atmospheric conditions. (10 Marks)
- b. What is Inversion? Explain different types of inversions. (10 Marks)
- 4 a. Explain the factors influencing the industrial plant location and planning. (10 Marks)
- b. Define Noise. Discuss in brief the various sources of noise. Write a brief note on noise abatement and control. (10 Marks)

PART - B

- 5 a. Describe the sampling train, with the help of neat sketch. (10 Marks)
- b. Explain the procedure for measurement of Suspended particulate matter (SPM) in ambient air using high volume air sampler, with a neat sketch. (10 Marks)
- 6 a. Explain with a neat sketch, the principle and construction of fabric filter. Also give its applications. (10 Marks)
- b. Explain Air pollution due to gasoline and diesel vehicles. (10 Marks)
- 7 Write short notes on :
 - a. Indoor Air Pollution. (07 Marks)
 - b. Ozone depletion in stratosphere. (06 Marks)
 - c. Global warming. (07 Marks)
- 8 Write short notes on the following :
 - a. Ambient Air quality standards. (05 Marks)
 - b. Wind rose diagram. (05 Marks)
 - c. Air pollution inventory. (05 Marks)
 - d. Electrostatic separators. (05 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.