

Code: EE6T6FE-A, EC6T6FE-B, IT6T5FE-A, ME6T6FE-A, CS6T5FE-A.

III B.Tech-II Semester–Regular/Supplementary Examinations–March 2019

**AIR POLLUTION AND CONTROL
(COMMON FOR EEE, ECE, IT, ME & CSE)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1. a) What is Indoor air pollution?
- b) Discuss about ‘Acid rains’.
- c) List the various economic losses due to air pollution.
- d) Define properties of atmosphere.
- e) What is meant by ‘Lapse rate’?
- f) Memorize about fabric filters.
- g) Compare dry scrubbers with wet scrubbers.
- h) Recall about dust collection devices.
- i) Define wind velocity.
- j) Interpret the main objects of a ‘stack’.
- k) Outline about by Air Quality Management.

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Classify air pollutants into different categories and indicating their sources. 8 M
- b) List out the effect of air pollutants on man, material and vegetation. 8 M
3. a) Administer the role of meteorological parameters in dispersion of air pollutants. 8 M
- b) Analyze about Gaussian model for plume dispersion. 8 M
4. a) Interpret about different pollution controlling methods at source itself. 8 M
- b) Administer the control of SO_x emissions in thermal power plants. 8 M
5. a) Examine about the methods available to control air pollution by process change. 8 M
- b) Summarize about diffusion theories. 8 M
6. a) Outline the emission standards as per Air pollution act, 1981. 8 M
- b) Examine any method of monitoring of suspended particulate matter. 8 M