



**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:V
Class:TY	Program:B.Tech
Branch Code:CIV	Pattern:2022
Name of Course:Air Pollution and Control	Course Code:CIV223009
Max. Marks:60	Duration:2.30 Hrs.

**Instructions:** Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 02 page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

**Marks CO**

**Question No. 1**

- 1a) What is the greenhouse effect? What is the impact of the greenhouse effect? (6) CO1

**Question No. 2**

- 2a) Write a short note on air pollution survey? (6) CO2

**Question No. 3**

- 3a) Describe the factors affecting exposure to indoor air pollution. (8) CO3

**OR**

- 3b) Explain the major causes of indoor air pollution and discuss the sources and effects of common indoor air pollutants. (8) CO3

- 3c) What is Sick Building Syndrome (SBS)? Explain its causes, symptoms, and prevention. (8) CO3

**OR**

- 3d) Explain odour pollution. Discuss its sources, measurement techniques, and methods for odour control (8) CO3

**Question No. 4**

- 4a) Explain with neat sketch working, principle, advantages and disadvantages of Gravity Settling Chamber? (8) CO4

**OR**

- 4b) Explain with neat sketch working, principle, advantages and disadvantages of Cyclone Collector? (8) CO4

- 4c) Explain with neat sketch working, principle, advantages and disadvantages of Electrostatic Precipitator? (8) CO4

**OR**

- 4d) Explain with neat sketch working, principle, advantages and disadvantages of Wet Scrubber? (8) CO4

**Question No. 5**

5a) Describe the major features of the Environment (Protection) Act, 1986 (EPA-1986). Why is it called an umbrella legislation (8) CO5

**OR**

5b) Explain the important provisions of the Air (Prevention and Control of Pollution) Act, 1981. (8) CO5

5c) Explain land use planning as a method of controlling air pollution. (8) CO5

**OR**

5d) Describe the methodology for preparing an Environmental Impact Assessment (EIA) for air pollution (8) CO5

**..... End of question paper.....**