

**JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE  
DEPARTMENT OF CIVIL ENGINEERING**

**Assignment-1**

1. What do you understand by acid rain? Enlist most responsible chemical for acid rain.
2. When air act is introduced in India and what is main objective of this act?
3. Write any two methods to control air pollution at your level.
4. What are the pollutants released from petrol vehicles? Explain their harmful effects on environment.
5. Explain sources of air pollution in details.
6. What are the pollutants released from petrol vehicles? Explain their harmful effects on environment.
7. What do you understand by aerosols? Briefly describe various types of aerosols along with their characteristics.
8. What do you understand by combustion process?
9. Explain High Volume sampler with principle involved in it with neat sketch diagram in details.
10. Explain electrostatic precipitation with neat diagram.

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**Assignment 2**

1. What are factors affecting monitoring of air pollutants? Write your answer in points only.
2. Write any two methods to control air pollution at your level.
3. If you are the chief minister of your state than what is your duty to control air pollution?
4. What is the need of air sampling and monitoring?
5. Explain harmful effects SO<sub>2</sub>, CO, NO<sub>2</sub> and CO<sub>2</sub> on human health, materials and vegetation with proper example.
6. Write any two methods to control air pollution at your level.
7. Explain harmful effects of air pollution on Human.
8. Explain Tape sampler.
9. What are the methods of sampling?
10. What are the basic precautions taken air samplings?

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Assignment 3

1. Explain natural and unnatural sources of air pollution.
2. What is the noise pollution and how it is measured?
3. Explain Electrostatic precipitation in details with neat sketch diagram.
4. Explain Principle and working of cyclone separator in details with neat sketch.
5. Differentiate between continuous noise, intermittent noise and impulse noise and their effects.
6. Explain Bio scrubbers in details with neat sketch.
7. What are the measures which may be taken to have effective control on noise pollution?
8. Explain Sound intensity and Sound pressure level
9. Explain Bio scrubbers in details with neat sketch.
10. What kinds of instruments are used in air sampling?

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**Assignment 4**

1. What is plume rise? Explain with neat sketches, how different atmospheric conditions give rise to different kinds of plumes.
2. Explain Noise Standards and Limit Values.
3. What do you understand by noise indices? What are the monitoring procedures for noise pollution?
4. Explain how sound is measured and what is the unit of measurement?
5. What are the measures which may be taken to have effective control on noise pollution?
6. What is meant by acoustic reflex?
7. What do you understand by lapse rate? Explain Different types of lapse rates.
8. Write methods to mitigate noise pollution.
9. Define sound pressure and sound intensity.
10. Explain harmful effects of noise pollution on human health and animals.