

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.

Branch: CIVIL ENGINEERING

Course Code: 20CV5PEAPL

Course: Air Pollution

Semester: V

Duration: 3 hrs.

Max Marks: 100

Date: 25.09.2023

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
 2. Missing data if any, may be suitably assumed.

UNIT - I

1	a) Define air pollution. Classify the various types of pollutants b) Mention and explain the different emission source classification	10
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UNIT - II

2	a) CO is present in standard atmospheric air at a concentration of 50ppm. Compute the volume concentration ,mass volume concentration and mass concentration b) Explain the various health effects of air pollution	10
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UNIT - III

3	a) With the help of neat sketch, explain the working of cyclone separation. b) Explain the meteorological factors influencing air pollution.	10
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UNIT - IV

4	a) With the help of a flow chart, explain activities of conducting EIA for the developmental projects. b) Discuss on air quality monitoring and its preventive measures.	10
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OR

5	a) Draw a neat sketch of fabric filters and explain b) List the advantages and disadvantages of electrostatic precipitators	10
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UNIT - V

6	a) With a neat sketch explain various compressible flow regimes b) Illustrate the work done by expanding gas with the help of helium gas gun example.	10
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OR

7	a) Discuss on the fundamental equations of compressible flow. b) Explain the Thermodynamic aspects of gases.	10
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