



I SEMESTER M.TECH (ENVIRONMENTAL ENGINEERING)

END SEMESTER EXAMINATIONS, NOVEMBER 2023

SUBJECT: AIR AND NOISE ENVIRONMENT [CIE 5120]

Date of Exam:

Time: 3 hrs.

Max. Marks: **50**

Instructions to Candidates:

❖ Answer ALL the questions & any missing data may be suitably assumed

Q. No.	Question	Marks	CO	BL
1A.	Illustrate the effect of air pollution on human health and vegetation.	5	CO1	3
1B.	With a neat sketch, illustrate the temperature inversion.	5	CO1	3
2A.	With a neat sketch, illustrate the major elements in air quality modelling system.	5	CO2	3
2B.	Illustrate the preliminary considerations in planning the sampling of air pollution.	5	CO2	3
3A.	With a suitable example, illustrate the Joint Implementation for achieving the targets ratified by Kyoto protocol.	5	CO3	3
3B.	With a suitable example, illustrate the Rating Community Noise.	5	CO4	3
4A.	With a neat sketch, illustrate Gravity Settling Chamber.	5	CO4	3
4B.	With a suitable example, illustrate Noise scale and Day-night sound level.	5	CO4	3
5A.	Illustrate any three types of Excess Noise Attenuation.	5	CO5	3
5B.	Derive the equation to determine the excess attenuation of outdoor noise using two point method.	5	CO5	3