

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Second Semester**Environmental Engineering***PEVT2422- Air and Noise Pollution Control Engineering***Regulations – 2024**Duration : 3 Hrs**Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)***

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Distinguish between primary and secondary air pollutants.	L2	1	2
2.	What are emission standards?	L1	1	2
3.	What is dry adiabatic lapse rate?	L2	2	2
4.	Name any two meteorological factors which have great effect on air pollutant transportation.	L2	2	2
5.	What are the two broad approaches to control air pollution emissions?	L3	3	2
6.	What are wet scrubbers?	L2	3	2
7.	Differentiate between physical and chemical adsorption.	L2	4	2
8.	Name any four key factors affecting the efficiency of combustion as a pollution control device.	L3	4	2
9.	List out the contaminants present in tail pipe emissions of auto mobiles.	L2	5	2
10.	What are the properties of noise?	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a What are the major sources of air pollution and discuss the major type of pollutants produced by each source? Or	L3	1	16
	b Explain in detail the adverse effects of air pollution on vegetation and human health.	L4	1	16
12.	a Explain with a neat sketch how plume behave in different atmospheric stability condition. Or	L3	2	16
	b Define wind rose. Explain the importance of wind rose in air pollution studies.	L2	2	16
13.	a Explain air pollution control equipment - Electrostatic precipitator with sketches. Or	L3	3	16
	b Give brief description on function of cyclone separators (Reverse flow Cyclone).	L2	3	16

14.	a	Differentiate between physical and chemical adsorption and its impact on environment.	L3	4	16
		Or			
	b	Explain the working principle of bio filtration technique for VOC control with the help of a neat sketch.	L3	4	16
15.	a	Discuss the various sources of indoor air pollution and explain the control measures.	L3	5	16
		Or			
	b	Enumerate with examples the major sources of noise pollution. What measures can be taken to prevent noise pollution?	L3	5	16