

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025*****Second Semester******Environmental Engineering*****EV4203 / PEVT2423 -Industrial Wastewater Pollution – Prevention and Control*****Regulations – 2021/2024******Duration : 3 Hrs******Maximum : 100 Marks******PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)***

Q.No	Questions	BLT	CO	Marks
1.	What are the major sources of industrial wastewater?	L1	1	2
2.	Define bioassay tests in industrial wastewater treatment.	L1	1	2
3.	What is meant by pollution prevention?	L1	2	2
4.	Explain any two benefits of waste minimization in industries.	L2	2	2
5.	What is the purpose of flow equalization in industrial wastewater treatment.	L1	3	2
6.	Name any two methods used for heavy metal removal in wastewater treatment.	L1	3	2
7.	What is meant by zero effluent discharge?	L1	4	2
8.	Why is sludge digestion important in wastewater treatment?	L2	4	2
9.	Mention any two wastewater treatment methods used in the textile industry.	L2	5	2
10.	What are the major pollutants in oil refinery wastewater?	L1	5	2

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

Q.No	Questions	BLT	CO	Marks
11. a	What are the sources and types of industrial wastewater and explain in detail.	L1	1	16
	Or			
b	Explain the environmental impacts of industrial wastewater and the regulatory requirements for its treatment.	L1	1	16
12. a	Describe in detail about the various pollution prevention techniques in industries.	L2	2	16
	Or			
b	Explain the concept of cost-benefit analysis and payback period.	L2	2	16

13.	a	Describe the various methods for the removal of inorganic constituents from industrial wastewater.	L2	3	16
Or					
	b	Explain in detail the different biological treatment processes used for treating industrial wastewater.	L2	3	16
14.	a	Discuss the treatment and disposal methods of sludge generated from industrial wastewater treatment plants.	L2	4	16
Or					
	b	Explain the concept and challenges of wastewater reuse in industries.	L2	4	16
15.	a	With a neat flowchart, explain the industrial wastewater treatment process for tanneries.	L3	5	16
Or					
	b	Describe the wastewater treatment and pollution control measures in the sugar and distillery industry.	L2	5	16