Register No : _____

THE KAVERY ENGINEERING COLLEGE

(An Autonomous Institution)

UG/PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2026

Second Semester

M.E. Environmental Engineering

PEVT2423 - INDUSTRIAL WASTEWATER POLLUTION PREVENTION AND CONTROL

Regulations - 2024

Duration: 3 Hrs. ***Maximum: 100 Marks***

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	*Questions*	*BTL*	*CO*	*Marks*
1.	Write any three adverse effects of cadmium on human beings.	K2	1	2
2.	What is Bioassay Tests?	K1	1	2
3.	Mention the Some Benefits in Waste Minimization Techniques.	K2	2	2
4.	Differentiate between BOD and COD.	K2	2	2
5.	What is meant by Reverse Osmosis?	K1	3	2
6.	Define Pyrolysis.	K1	3	2
7.	Differentiate between individual and common effluent treatment plants.	K2	4	2
8.	How will you manage reject RO Water.	K2	4	2
9.	What are the latest developments in reducing wastewater in Industries?	K2	5	2
10.	List out the Characteristics of Wastewater from Pharmaceuticals.	K2	5	2

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

Q.No		*Questions*	*BLT*	*CO*	*Marks*
11.	a	Describe major issues with reference to Water Quality Management.	K2	1	16
		Or			
	b	Write the major heavy metals in the wastewater, their sources and the impact on the Ecosystem.	K2	1	16
12.	a	Briefly Explain about on prevention vs Control of industrial Pollution their benefits and barriers.	K2	2	16
		Or			
	b	Explain in detail the implementing and promoting pollution Prevention Program in Industries.	K2	2	16
13.	a	Describe the removal Techniques of organic and inorganic Constituents in Wastewater.	K2	3	16
		Or			

	b	i	Explain the biological Treatment Process used in Wastewater Treatment Plants.	K2	3	8
		ii	Describe the Chemical Oxidation Process for Industrial Wastewater Treatment	K2	3	8
14.	a		Enumerate the method of joint treatment of Industrial and domestic Wastewater. And also mention its Merits and Demerits.	K2	4	16
			Or			
	b		Explain about the Management Process of Sludge and RO reject.	K2	4	16
15.	a		Evaluate the Major Pollutants Present in Tannery Effluent and Decide which Pollutant should be given the Highest Priority for Removal Treatment Process	K5	5	16
			Or			
	b		With the help of a neat sketch explain the Treatment Process for Sugar and Distillery Plant Effluent in Current Scenario.	K5	5	16

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