

Code: 20CE4501D

**III B.Tech - I Semester – Regular Examinations - DECEMBER 2022**

**POLLUTION PREVENTION AND MANAGEMENT  
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
<b>UNIT-I</b>					
1	a)	Explain the planning of waste water collection system in rural areas.	L3	CO1	7 M
	b)	Design a septic tank for a colony 200 users with water supply 120 lpd. Make suitable assumptions.	L4	CO1	7 M
<b>OR</b>					
2	a)	With neat sketch, explain the working principle of stabilization pond for treating rural waste water.	L3	CO1	7 M
	b)	Explain the effluent disposal methods in rural sanitation.	L3	CO1	7 M
<b>UNIT-II</b>					
3	a)	What is Biomedical Waste? Explain the different sources of biomedical waste.	L2	CO2	7 M
	b)	Explain the processing of biomedical waste.	L3	CO2	7 M
<b>OR</b>					

4	a)	Explain the various types of biomedical waste.	L3	CO2	7 M
	b)	Describe different disposal methods of biomedical waste.	L3	CO2	7 M
<b>UNIT-III</b>					
5	a)	Discuss in brief about classification and composition of E-waste.	L3	CO3	7 M
	b)	Explain the collection process of E-Waste.	L3	CO3	7 M
<b>OR</b>					
6	a)	Explain the role of individual for E-waste management.	L2	CO3	7 M
	b)	Summarize the current E-waste management rules.	L3	CO3	7 M
<b>UNIT-IV</b>					
7	a)	What is hazardous waste? Explain the various sources of hazardous waste.	L2	CO4	7 M
	b)	Explain the classification of hazardous waste.	L3	CO4	7 M
<b>OR</b>					
8	a)	Describe the responsibilities of transporter and special requirements of driver for hazardous waste transportation.	L3	CO4	7 M
	b)	List the various methods of disposal of hazardous waste and explain any one in detail.	L2	CO4	7 M
<b>UNIT-V</b>					
9	a)	Explain the different sources of noise pollutions.	L3	CO5	7 M
	b)	Explain the impacts of noise pollution on	L3	CO5	7 M

		human and environment.			
<b>OR</b>					
10	a)	Enumerate the various control methods of noise pollution.	L3	CO5	7 M
	b)	Summarize the noise pollution (Regulation and control) rules, 2000 as per CPCB.	L3	CO5	7 M