

Code: 20CE4501D

**III B.Tech - I Semester – Supplementary Examinations
NOVEMBER 2023**

**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.

			Max. Marks
UNIT-I			
1	a)	Explain the principle and working of a septic tank with the help of a diagram.	7 M
	b)	Examine and compare the different effluent disposal methods.	7 M
OR			
2	a)	Identify the different ways in which excreta is disposed systematically at low costs.	7 M
	b)	Examine the different methods of treatment of wastewater in rural areas.	7 M
UNIT-II			
3	a)	Outline the need and objectives for biomedical waste management in India.	7 M
	b)	Provide a detailed classification of biomedical waste into different categories.	7 M

OR			
4	a)	Present an overview of different disposal methods of biomedical waste.	7 M
	b)	Define what constitutes a 'biomedical waste'. Explain segregation of biomedical waste?	7 M
UNIT-III			
5	a)	Summarize the collection and segregation processes of e-waste.	7 M
	b)	Outline the various health hazards faced upon exposure to e-waste.	7 M
OR			
6	a)	Compare the different e-waste management rules being enforced currently.	7 M
	b)	Explain the major sources, types, and components of e-waste.	7 M
UNIT-IV			
7	a)	What do you understand by the term 'hazardous waste'? How do you identify a hazardous waste, and what differentiates it from solid waste?	7 M
	b)	Provide a detailed classification of hazardous waste into different categories.	7 M
OR			
8	a)	Explain the different disposal methods and processes for hazardous wastes.	7 M
	b)	Distinguish between the various treatment strategies adopted for hazardous wastes. Which according to you is the most economical way of treating hazardous waste?	7 M

UNIT-V

9	a)	Explain how measurement of noise is carried out? Also provide a brief summary of permissible limits of noise as per CPCB.	7 M
	b)	Outline the Noise Pollution (Regulation and Control) Rules, 2000 as per CPCB.	7 M

OR

10	a)	Summarize the different control methods of noise pollution.	7 M
	b)	Explain the different sources of noise pollution in detail.	7 M