Name. _____	**Printed Pages:01**
Student Admn. No.: _____	

School of Civil Engineering
Department of Civil Engineering
Backlog Examination, June 2023

[Programme: B.Tech Civil Engg.] [Semester: VI] [Batch:]

Course Title: Pollution Control and Monitoring	**Max Marks: 100**
Course Code: BTCE3026	**Time: 3 Hrs.**

Instructions:
1. *All questions are compulsory.*
2. *Assume missing data suitably, if any.*

		K Level	COs	Marks
	SECTION-A (15 Marks) 5 Marks each			
1.	Write a note on lapse rate, temperature lapse rate and adiabatic lapse rate.	K1	CO1	5
2.	Assess the role of governmental policies and regulations in controlling water pollution and suggest potential improvements.	K2	CO1	5
3.	Define water pollution and provide three examples of water pollutants.	K3	CO1	5
	SECTION-B (40 Marks) 10 Marks each			
4.	Define primary and secondary air pollutants and provide three examples of each.	K2	CO1	10
5.	Explain the causes and consequences of acid rain and its effects on ecosystems, buildings, and human health.	K2	CO1	10
6.	Define eutrophication and explain how excessive nutrient runoff contributes to this form of water pollution.	K3	CO2	10
7.	Explain the mechanisms by which air pollutants are transported and dispersed in the atmosphere. OR Explain the impact of air pollution on human health and discuss the specific respiratory and cardiovascular diseases associated with exposure to pollutants.	K3	CO2	10
	SECTION-C (45 Marks) 15 Marks each			
8.	Illustrate three common hazardous waste materials and explain the specific risks they pose to human health and the environment.	K3	CO3	15
9.	Assess the effectiveness of current waste management policies and regulations in promoting sustainable waste practices, and suggest potential improvements or additional measures.	K3	CO3	15
10	Compare and contrast the advantages and disadvantages of different noise control methods, such as sound insulation, noise barriers, and use of low-noise technology in transportation. OR Analyze a noise control plan for a specific urban area or industrial site, considering measures such as sound barriers, noise reduction technologies, and zoning regulations.	K4	CO4	15