R20 Regulation *Subject code: 3P6AB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, April 2026

ENVIRONMENTAL ENGINEERING

(CE)

Maximum Marks: 70 Date: 16.04.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	What are the methods available to predict future population?	2M	1	L1
2	How will you measure rainfall mention its types.	2M	1	L1
3	List out the types of pumps and pipes.	2M	2	L1
4	What is meant by sewage sickness and sewage farming?	2M	2	L1
5	Define self-purification of rivers.	2M	3	L1
6	List out types of bacteria used for digestion.	2M	3	L1
7	Write short notes on decomposition of sewage.	2M	4	L1
8	Define RO and membrane filtration.	2M	4	L1
9	List out how to Control of gaseous pollutants.	2M	5	L1
10	Mention the terms of plume behaviour.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the various sources of water and mention the necessary of water treatment.	10M	1	L2
	OR			
12	Explain the terms a) Variation of water demand and fluctuation. b) Infiltration Galleries and water borne and water related diseases	5M 5M	1	L2
13	Explain how to test characteristics of waste water determine test procedure to estimate DO, BOD.	10M	2	L2
	OR			
14	Explain with the help of neat sketch the construction and working of rapid sand filter.	10M	2	L2
15	Explain with a neat sketch principle operation of oxidation pond. (10M)	10M	3	L2

	OR			
16	With neat sketch explain the various types of plumbing system adopted in houses.	10M	3	L2
17	Discuss in detail with neat sketch of any one biological treatment units and its process.	10M	4	L2
	OR			
18	Explain the various sludge treatment and disposal methods.	10M	4	L2
19	Discuss in detail various types of air pollutants and its effects on environment.	10M	5	L2
	OR			
20	Discuss in detail about the control methods air pollution.	10M	5	L2