R18 Regulation *Subject code: 2P6AA*

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: 13.04.2026 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 is meant by water borne diseases?	2M	1	L1
2	Classify the various sources of water.	2M	1	L1
3	Mention the need for protected water supply.	2M	2	L1
4	List out any two differences between slow and rapid sand filter.	2M	2	L1
5	What is meant by sewage and sullage?	2M	3	L1
6	List out type of sewer appurtenances.	2M	3	L1
7	What are the factors influence anaerobic digestion.	2M	4	L1
8	What are the types trickling filter? Mention its working.	2M	4	L1
9	List out how to Control of gaseous pollutants.	2M	5	L1
10	Mention the terms of flume behavior.	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	Estimate the future population of a town in 2040AD for the given below. Estimate the population using geometrical increase method and incremental increase method.	10M	1	L2
13	Explain with the help of neat sketch the construction and working of slow sand filter	10M	2	L2
	OR			
14	Explain with various methods the layout of water distribution system.	10M	2	L2
15	Elaborate the different shapes of sewers and materials used for sewers along with their suitability.	10M	3	L2
	OR			
16	Discuss in detail various types of pipes with merits and demerits.	10M	3	L2

Year	1980	1990	2000	2010	2020
population	45000	54000	65000	83000	200000

17	Explain the principle and working of trickling filter with a neat sketch.	10M	4	L2
	OR			
18	Discuss in detail about various sludge treatment and disposal methods.	10M	4	L2
19	Discuss in detail various types of pollutants and its effects on environment.	10M	5	L2
	OR			
20	Discuss in detail the control methods of air pollution.	10M	5	L2