



Regulation: R18

Subject code: 2P6AA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Semester Supplementary Examinations, January 2023

ENVIRONMENTAL ENGINEERING

(Civil Engineering)

Maximum Marks: 70

06-01-2023

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 which carries 10M.
 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)

- 1 What are the methods available to predict future population?
- 2 How will you measure rainfall? Mention its types of rain gauges.
- 3 List out the types of pumps and pipes
- 4 What is meant by sewage sickness and sewage farming
- 5 Define self-purification of rivers
- 6 List out types of bacteria used for digestion
- 7 Write short notes on Sludge treatment method.
- 8 Define RO and membrane filtration
- 9 List out how to Control of gaseous pollutants
- 10 Mention the sources of air pollution.

Part-B

Answer All the following questions.

(5x10M = 50 Marks)

- 11 Discuss the various sources of water and mention the necessary of water treatment (10)
- OR
- 12 Explain the terms
 - A) Variation of water demand and fluctuation (5)
 - B) Infiltration Galleries and water borne and water related diseases (5)
- 13 Explain how to test characteristics of waste water determine test procedure to estimate DO. (10)
- OR
- 14 Compare Rapid Sand and Slow Sand Filter. (10)
- 15 Explain in detail with neat sketch of various types of traps. (10)
- OR
- 16 Explain with neat sketch of one pipe and two pipe system adopted in houses. (10)
- 17 Discuss in detail with neat sketch of waste water treatment units and its process. (10)
- OR
- 18 Discuss in detail about various sludge treatment and disposal methods (10)
- 19 Discuss in detail various types of air pollutants and its effects on environment. (10)
- OR
- 20 Discuss in detail in control methods of air pollution. (10)

