



R20 Regulation

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

Subject code:3P6AB

**B.Tech VI Semester Regular Examinations, June/July 2023**

**ENVIRONMENTAL ENGINEERING**  
(Civil Engineering)

Maximum Marks: 70

Date:24.06.2023 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

- 1 Explain about the different types of Water Demands.
- 2 What is Infiltration Galleries?
- 3 Define coagulation.
- 4 What is Disinfection of Water?
- 5 Define Traps?
- 6 What are the requirements of good Drainage System?
- 7 What is the need of Pumping Sewage?
- 8 What is Sedimentation Tank?
- 9 Define the term "Pollution" and classify its types?
- 10 Define Meteorology and state its significance?

(10x2M=20 Marks)

Part-B

Answer All the following questions.

- 11 Explain briefly about Infiltration Galleries, Infiltration Wells, Springs and Intake Structure. (10M)  
OR
- 12 Mention all the Standards of water to be used for the Domestic Purposes. (10M)
- 13 Differentiate between the Rapid Sand and Slow Sand Filters. (10M)  
OR
- 14 What is Chlorination? Explain it briefly. (10M)
- 15 Explain the Design Aspects of Sedimentation Tank. (10M)  
OR
- 16 Explain about the Classification of Traps? (10M)
- 17 Write about Working Principles of Soak Pits. (10M)  
OR
- 18 Explain about the Construction of Oxidation Ponds? (10M)
- 19 Discuss in detail about Plume behaviour and its types with neat sketches? (10M)  
OR
- 20 How do you measure the effects of Meteorological variables such are Humidity and Temperature? (10M)