



Regulation R18

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, June/July 2023

Subject code: 2P6AA

Environmental Engineering

(Civil Engineering)

Maximum Marks: 70

Date: 22.06.2023 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.
 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 is meant by water borne diseases?
- 2 Classify the various sources of water.
- 3 Mention the need for protected water supply
- 4 List out the pipe appurtenances
- 5 What is meant by sewage and sullage?
- 6 List out the types of sewer appurtenances.
- 7 Write notes on grit chamber.
- 8 What is ASP? List the advantages and disadvantages.
- 9 Recall types of pollutants
- 10 Mention the layers of atmosphere

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Differentiate confined and unconfined aquifers (5)
b) Explain the basic functioning of the hydrological cycle (5)
OR
- 12 Explain the various types of chlorination and various forms of chlorines (10)
- 13 Elaborate different types of sedimentation tanks and explain any two with neat sketch (10)
OR
- 14 Discuss the merits and demerits of different layouts of water distribution network (10)
- 15 Elaborate the different shapes of sewers and materials used for sewers along with their suitability (10)
OR
- 16 Explain with neat sketch of various types of plumbing system adopted in houses. (10)
- 17 Discuss in detail with neat sketch of any one biological treatment units and its process (10)
OR
- 18 Discuss in detail about various sludge treatment and disposal methods. (10)
- 19 Discuss in detail various Control of gaseous pollutants, automobile pollution and control. (10)
OR
- 20 Write short notes on global warming and ozone depletion. (10)