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**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (AUTONOMOUS)**

Madhurawada, Visakhapatnam

Affiliated to JNT University – K, Kakinada

B.Tech VII Semester Regular Examinations, November 2023**WATER SUPPLY SYSTEMS****(Open Elective-II)****(Common to all branches)****Date: 24-11-2023****Time: 3 Hours****Max. Marks: 70**

1. Answer ONE Question from each UNIT
2. All parts of a Question must be answered at one place to get valued.
3. All questions carry equal marks.

UNIT-I

1. a) What is meant by Domestic water demand? Explain in detail. 7 Marks
b) What is meant by Fire demand? Explain in detail. 7 Marks
2. a) What is meant by Dust palliative? Explain role of water as Dust palliative in detail. 7 Marks
b) Explain in detail about dilution of wastewater. 7 Marks

UNIT-II

3. a) Explain in detail about Quality of Rivers and Pond water. 8 Marks
b) Explain in detail about types of Springs with neat sketches. 6 Marks
4. a) Explain in detail about Recharging of Aquifers. 7 Marks
b) Explain in detail about water from Atmosphere. 7 Marks

UNIT-III

5. a) What is meant by Black water? Explain in detail about uses and treatment. 7 Marks
b) Explain in detail about problems associated with Sewage Irrigation. 7 Marks
6. a) Explain in detail about Water borne diseases. 9 Marks
b) Explain in detail about various characteristics of Protected water. 5 Marks

UNIT-IV

7. a) Explain types of Fire hydrants in detail about with neat sketch. 6 Marks
b) What are the Properties of Ideal Distribution systems? 8 Marks
8. a) Explain classification of distribution system based on method of distribution 7 Marks
b) Explain in detail about continuous and intermittent water supply. 7 Marks

UNIT-V

9. a) What are the factors effecting selection of location of industry with respect water source. 9 Marks
b) What are the various differences between Domestic and Industrial wastewater. 5 Marks
10. a) Explain processing at Textile industry? Write Origin and characteristics of Textile wastes. 7 Marks
b) Explain processing at tannery Industry. Write Origin and characteristics of tannery wastewater. 7 Marks