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Reg. No. : | | | | | | | | | | | | |

**Question Paper Code : 91099**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Seventh Semester

Civil Engineering

OTT 752 – TEXTILE EFFLUENT TREATMENTS

(Common to: Environmental Engineering)

(Regulations 2017)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the influence of water alkalinity in textile processing.
2. Identify the standard temperature and pH of the water to be discharged into the public sewers.
3. State the characteristics of waste water evolved out of mercerization process.
4. Interpret the influence of particle size on primary treatment process.
5. Compare and contrast the aerobic and anaerobic treatment.
6. State the methods of disposal of sludges on to the environment.
7. State the importance of chemical precipitation in wastewater treatment.
8. State the advantages of electro dialysis over simple dialysis in effluent treatment.
9. List the various air pollutants emerged out from the textile industry.
10. State the influence of weaving machine on the noise pollution level of the environment.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the impact of water in textile processing.

Or

(b) Describe the various components of the textile effluents and its effects on to the environment.

12. (a) Analyse the characteristics of water discharged from the dyeing and printing process.

Or

(b) Analyse the methods of neutralizing the acidic wastes of textile effluents.

13. (a) Explain the principle of trickling filtration process of effluent treatment.

Or

(b) Describe the application of oxidation ponds on wastewater treatment.

14. (a) Classify the membrane technology based on the pore size and elucidate its application in the waste water treatment.

Or

(b) Elucidate the role of activated carbon adsorption on treatment process.

15. (a) Describe the various air pollutants, its properties, sources and health effects.

Or

(b) Compare and contrast the active and passive noise control measures.

PART C — (1 × 15 = 15 marks)

16. (a) Analyse the characteristics and treatment method followed for the cotton processing effluents

Or

(b) Analyse the characteristics and treatment method followed for the synthetic fibre processing effluents

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