

Code No: **R4101A****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March - 2018**
INDUSTRIAL WATER AND WASTE WATER MANAGEMENT**(Open Elective)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions**
All Questions carry equal marks

- 1 a) What is setting and control of quality of water? What is Slime prevention? [7]
b) Discuss few processes on utilizing the wastes from food and beverage industry. [8]
- 2 a) Explain the necessity of equalization and proportioning for Industrial waste water treatment. [8]
b) Discuss: volume reduction, strength reduction. [7]
- 3 a) Explain the Principle of recirculation of industrial wastes. [8]
b) Explain the difference between industrial waste and municipal waste water. [7]
- 4 a) What are the factors to be considered for the use of treated municipal waste water in industries? [8]
b) Explain the process for removal of color and odour from waste water by activated by carbon filtration. [7]
- 5 a) Discuss the application of zero discharge technology based on three R principles pulp and paper industries. [8]
b) Write a detailed note on treatment of textile waste. [7]
- 6 a) Explain the manufacturing process and origin of liquid waste from food processing industries. [8]
b) Write a detailed note on treatment of dairy wastes. [7]
- 7 a) Write a detailed note on treatment of steel plant waste. [7]
b) Draw a flow diagram showing the complete treatment of sugar mill wastes. What are the characteristics of sugar mill wastes? [8]
- 8 a) Draw a flow diagram showing the complete effluent treatment plants. [8]
b) What are the advantages and suitability of effluent treatment plant? [7]