

Code No: **RT41085**

can decrease the pollution.

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Set No. 1

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IV B.Tech I Semester Supplementary Examinations, February/March - 2018 INDUSTRIAL POLLUTION CONTROL ENGINEERING

(Open Elective)

Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B **** PART-A (22 Marks) Write different sources of Water Pollution. [3] 1. a) Write briefly about self-purification of running streams. b) [4] Write briefly on Carbon absorption. [3] c) Write briefly about rotary drum filters. [4] d) Write briefly about gaseous sampling. [4] e) f) Explain how the change in raw materials would control air pollution. [4] PART-B (3x16 = 48 Marks)What are the different types of emissions from chemical industries and give 2. their environmental effects? [8] Write the guidelines and standards of effluent waste water. [8] b) Explain the analytical method of determination of BOD. 3. [8] Derive the mathematical expression for BOD. [8] **Explain** 4. a) Reverse osmosis and ii) Ultra filtration [8] Explain briefly about Flotation and i) ii) Neutralization. [8] Explain anaerobic process of waste water treatment. [8] b) Explain in detail about Stabilization ponds. [8] Describe different analytical procedures to collect and characterize particulate a) matter from effluent streams. [10] b) List out the equipment for control of gaseous emissions. [6] 7. a) Write in detail about the principle of Electro-static precipitator. [8] With the help of an example explain how the changes in the existing processes