Q.P. Code: 08568

[Marks:60]

Please check whether you have got the right question paper. 1. All questions are compulsory 2. All questions carry equal marks. 3. Draw neat and labelled diagrams wherever necessary **Q.1** Asnwser any two questions from the following: a. Explain in detail aerobic treatment for wastewater treatment. 06 b. Discuss in detail the role of biofilm in wastewater treatment 06 c. Write a note on the measurement of treatment efficiences for waste water treatment. 06 **Q.2** Answer any two questions from the following: a. What are centrifugal collectors? Explain their role in air pollution control. 06 b. Diagrammatically explain the Gravity Settling Chamber for air pollution control. Mention its 06 advantages and disadvantages. c. Describe the methods to control air pollution with special reference to Catalytic Convertor 06 **Q.3** Answer any two questions from the following: a) What is a landfill? Explain various components of a landfill. 06 b) Describe the classification, effect and management of e-waste. 06 c) Define organic pollutant? Write a note on management of organic pollutants 06 Q.4 Answer any two questions from the following a) Define Biodegradation. Explain various methods to determine the efficiency of biodegradability 06 b) Explain phytoremediation with special reference to root zone treatment 06 c) Write in detail the mechanism of biotransformation with suitable example. 06 Q.5 Write note on any four: a. Tertiary wastwater treatment 03 b. 3Rs 03 c. Ocean dumping 03 d. Noise management 03 e. Fluidized bed combustion 03 f. Membrane Bioreactor 03

[Time: 2½ Hours]

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