Exam.Code:0004 Sub. Code: 17375

2055

B.A./B.Sc. (General) Fourth Semester Industrial Chemistry Paper – B: Pollution

Time allowed: 3 Hours

Max. Marks: 75

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

X-X-X

- Attempt the following.
 - (a) What is aerobic digestion?
 - (b) Write the functions of a gauze.
 - (c) What is urban waste?
 - (d) Tell various types of air pollutants.
 - (e) Define least count.
 - (f) Write SI and CGS units of density.
 - (g) Tell in brief about biosphere.
 - (h) What do you mean by Flora and Fauna?
 - (i) Give any two points for industrial safety.
 - (j) What is water pollution?

(10x1.5)

UNIT-I

- 2. (a) Discuss Nitrogen cycle in detail.
 - (b) Explain pollution evaluation methods.

(8,7)

- 3. Write notes on the following:-
 - (a) Pesticide pollution
 - (b) Sewage analysis

(7,8)

<u>UNIT-II</u>

- 4. (a) Explain Principle and instrumentation of aerobic treatment of effluent water.
 - (b) Explain adsorption process.

(9,6)

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(2)

	5. Write notes on the following:-	
	(a) Electrostatic precipitator	
	(b) Bag Filter	(8,7)
	UNIT-III	
	(a) Explain any two methods for solid waste management.	
	(b) Describe measurement, accuracy and precision.	(9,6)
	7. Discuss in brief about the following.	Ų
	(a) HPLC	
	(b) Ion chromatography	(8,7)
	<u>UNIT-IV</u>	103.6
1	8. Explain construction and working of following thermometers.	
	(a) Resistance thermometer	
	(b) Pressure spring thermometer	(7,8)
9	9. Write notes on the following:-	
	(a) Macleod gauzes	
	(b) Pirani gauzes	(8,7)

x-x-x