Exam.Code:0434 Sub. Code: 3461

2071

M.Sc. (Applied Chemistry/Pharmaceutical) Fourth Semester Paper – 403: Industrial Aspects and Management

Paper – 403: Industrial Aspects and Management Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

- I. Attempt the following:
 - a) What is COD?
 - b) What is Ozone layer depletion?
 - c) Write in brief about ambient air quality.
 - d) What is impact of pollutants on human body?
 - e) What is water hardness? Tell its types.
 - f) Write in brief about solid waste management.

(6x2)

UNIT-I

- II. a) Explain various types of air pollution. Write their effects on human beings.
 - b) Write about composition of atmosphere.

(7,5)

- III. Explain the following:
 - a) Photochemical smog
 - b) Gaseous pollutants

(7,5)

<u>UNIT – II</u>

- IV. a) Discuss in detail gas chromatography technique used for air quality measurement.
 - b) Discuss chemical reaction and incineration method to control air pollution. (6,6)
- V. Write notes on the following:
 - a) gravity settling chamber
 - b) Wet scrubbing techniques

(6,6)

<u>UNIT – III</u>

- VI. Discuss the following in detail:
 - a) BOD
 - b) Water Quality Parameters

(6,6)

P.T.O.

VII.	Write complete notes on the following:-	
	a) Nygards and polymers pollution indices	
	b) Preservation and handling of samples	(7,5)
	<u>UNIT – IV</u>	
/III.	Discuss in detail disaster planning 'Onsite and offsite'.	(12)
IX.	Write notes on the following:-	
	a) Aerobic and facultative lagoons	
	b) Electrostatic treatment of water <i>x-x-x</i>	(7,5)