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B.A./B.Sc.(General)-4th Semester**Industrial Chemistry****Paper-B: Pollution**

Time allowed: 3 Hours

Max. Marks: 75

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

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- I. (a) List the green house gases.
 (b) Give the expression to measure viscosity.
 (c) Give statutory limits of noise pollution.
 (d) Write agents of radiation pollution.
 (e) What do you mean by calibration?
 (f) Express temperature in different units.
 (g) Define aerobic digestion.
 (h) What is the function of a gauge?
 (i) Give composition of combustion gases.
 (j) Tell different air pollutants. (10×1½)

UNIT - I

- II. (a) Discuss the effect of air pollutants on human beings and animal life.
 (b) Explain nitrogen cycle in detail. (8+7)
- III. (a) Give the detailed classification of water pollutants.
 (b) How is noise pollution determined? Explain its bad effects. (7+8)

UNIT - II

- IV. Name the primary and secondary treatment methods available for waste water treatment. Discuss sedimentation process in detail with a neat sketch. (15)
- V. Write notes on the following: -
 (a) Bag Filters
 (b) Mist Eliminators (7½+7½)

UNIT - III

- VI. (a) List various methods for solid waste management. Discuss any two of them in detail.
 (b) Explain the concept of measurement and accuracy. (10+5)
- VII. Discuss in brief about the following: -
 (a) Atomic absorption spectrophotometer
 (b) Gas chromatography (7+8)

P.T.O.

(2)

UNIT - IV

VIII. Give construction and working of the following: -

- (a) Pressure spring thermometer
- (b) Vapour filled thermometer (8+7)

IX. (a) Write down the different meters used for the measurement of viscosity. Explain the construction and working of one of them.

- (b) Write a note on pressure gauge of bellow type. (10+5)

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