

2053

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

I. Attempt the following:-

- a) What do you mean by flora and fauna?
- b) Write SI units of viscosity.
- c) Tell in brief about sewage analysis.
- d) Write different air pollutants.
- e) Discuss filtration in brief.
- f) What is the function of a gauze?
- g) What is adsorption?
- h) Give two points for industrial safety.
- i) Write in brief about pesticide pollution.
- j) What is meant by calibration?

(10x1½)

UNIT – I

II. a) Give the detailed classification of water pollutants.

b) How is noise pollution determined? Explain its bad effects.

(7,8)

III. a) Explain nitrogen cycle in detail.

b) Discuss pollution evaluation method.

(8,7)

UNIT – II

IV. Explain the construction and working of following equipments:-

a) Absorber

b) Wet scrubber

(7,8)

V. a) What is aerobic treatment of effluent water? Discuss its principle and instrumentation.

b) Write a note on sedimentation process.

(9,6)

P.T.O.

(2)

UNIT – III

- VI. Discuss in brief about the following:-
- a) Atomic absorption spectrophotometer
 - b) HPLC (8,7)
- VII. a) Explain concept of measurement, accuracy and precision.
- b) Write a note on Ion chromatography (7,8)

UNIT – IV

- VIII. Give construction and working of following:-
- a) Bimetallic thermometer
 - b) Pressure spring thermometer (8,7)
- IX. Write complete notes on the following:-
- a) Viscosity measurement
 - b) Diaphragm type pressure gauges (7,8)

x-x-x