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**BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)**  
**B.Tech.Sem - IV CHEMICAL : WINTER- 2022**  
**SUBJECT : ITC-II: INDUSTRIAL POLLUTION & ABATEMENT**

Day : Wednesday

Time : 02:30 PM-05:30 PM

Date : 30-11-2022

W-24444-2022

Max. Marks : 60

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**N.B :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** What are the sources of pollution? Describe point sources in detail. (10)

**OR**

What are the nonpoint sources of water pollution? Describe the Indian standards for disposal of industrial effluents. (10)

**Q.2** What are the sources of air pollution? Describe in detail and also classify the air pollutants. (10)

**OR**

What is particulate pollution? Describe the particulate pollution cleaning methods. (10)

**Q.3** What is dissolved oxygen and theoretical oxygen demand? What is the importance of estimation of these parameters in analysis of any effluent? (10)

**OR**

What is Biological Oxygen Demand (BOD)? Describe the method of measurement of BOD. (10)

**Q.4** What are the conventional methods of treatment of waste water? Describe various physical methods used in waste water treatment. (10)

**OR**

What is the principle and mechanism of photo catalysis in waste water treatment? (10)

**Q.5** What are the sources of solids waste? Classify the solid waste and discuss the importance of solid waste management in hospitals (10)

**OR**

What are the disposal methods of solid waste? Describe the importance of recycling in solid waste management. (10)

**Q.6** What is the concept of zero discharge system? Discuss the case study of pesticide industry. (10)

**OR**

Describe in detail the advanced treatment methods applicable for the treatment of textile industry effluent. (10)