**AKGEC/IAP/FM/02**

**AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD**

**DEPARTMENT OF CIVIL ENGINEERING**

**SESSIONAL TEST -2**

Course: B.Tech. Semester: VII

Session: 2017-18 Section: CE-1& CE-2 Subject: Industrial Pollution Control & Env. Audit Sub. Code: NCE-034

Max Marks: 50 Time: 2 hour

**ANSWER ALL QUESTIONS**

**SECTION A**

**(5 x2 =10)**

**1. Attempts all the parts**

1. Differentiate between Absorption and Adsorption.
2. What do you mean by ‘Concept of zero discharge effluent’?
3. Explain dewatering of sludge in detail.
4. List the various liquid and gas emissions from various industries in India.
5. Explain ‘Cradle to Grave concept’.

**SECTION B**

**(5 x5 =25)**

**2. Attempts all the parts**

1. What are the two commonly used systems for biological waste treatment? Explain them.
2. Discuss hierarchy of various treatment option of industrial waste.
3. How would you determine the quantity of oil and grease in a wastewater sample? Give detail.
4. Briefly explain the waste-water treatment methods.
5. How is the control and removal of chemicals such as cyanide, fluoride, toxic organics performed?

**SECTION C**

**(7.5 x2 =15)**

**3. Attempts all the parts**

1. Write down characteristics of liquid effluent from a sugar mill. Draw a flow diagram for the treatment of the same. Also give some detail of each unit shown in the flow diagram.
2. What is landfill? Which type of waste should be disposed off into a landfill as per solid waste management rule (2000)? What are main pathways involved for environmental contamination?