

**S-708**

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## **EVS-604**

### **Clean Technologies**

M.Sc. Environmental Science (MSCES)

3rd Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION–A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. What do you understand by *in-situ* and *ex-situ* remediation technologies? Discuss in-situ remediation technologies in detail.

2. What is meant by contaminated sites? Discuss in detail the remediation method for contaminated Soil and groundwater.
3. Discuss in detail the primary and secondary treatment technologies for wastewater.
4. What do you understand about solid waste management? Discuss in detail the various steps involved in solid waste management.
5. What is hazardous waste? Discuss its treatment technologies in detail.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

#### **Briefly explain:**

1. Cleaner production and sustainable development.
2. Bioremediation.
3. Characteristics of contaminated site.

4. Preliminary treatment of waste water.
  5. Tertiary treatment of wastewater.
  6. Transportation of solid waste from Source to processing site.
  7. Treatment of human excreta.
  8. ECOSAN.
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