

**C946**

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## **ESC-603**

### **Water and Waste Water Treatment Technologies-I**

M.Sc. Environmental Science (MSCES-20)

3rd Semester Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 40**

**Note :** This paper is of Forty (40) 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 Ten (10) marks each. Learners are required to answer any Two (02) questions only.

(2×10=20)

1. Describe the various methods of conveyance of water.
2. Describe different tests to understand the water quality.

3. What is sedimentation? Explain sedimentation with coagulation and flocculation.
4. What is filtration? Discuss the classification and types of filters.
5. Explain the steps involve in solid waste disposal in municipalities.

### **SECTION-B**

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

**Note :** Section 'B' contains Eight (08) short answer type questions of Five (05) marks each. Learners are required to answer any Four (04) questions only. (4×5=20)

1. Write a short notes on following :
  - (a) Springs.
  - (b) pH.
  - (c) Flocculators.
  - (d) Aeration.
2. Write a brief account on air wash system.
3. Describe the importance of sewage in brief.
4. Discuss the applications of chlorine.

5. Explain the chemical analysis of sewage.
  6. Explain about septic tank and disposal of its effluent.
  7. Describe different types of wells.
  8. Discuss the filter bed agitators in brief.
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