

**S-690**

Total Pages : 3

Roll No. ....

## **ESC-602**

### **EIA and Waste Management-I**

M.Sc. Environmental Science (MSCES)

3rd Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**[Max. Marks : 35**

**Note :** This paper is of Thirty Five (35) 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 Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. Describe in detail the Environmental Impact Statement (EIS) and Environmental Management Plan (EMP).

2. What are the different methods of Environmental Impact Assessment? Explain any one in details with suitable examples.
3. Write brief notes on any *two* of the following :
  - (a) Heavy metals and metalloids.
  - (b) Water borne diseases.
  - (c) Organic and inorganic components of soil.
  - (d) Noise pollution.
4. Define surface water environment. Describe the approaches used for the Environmental Impact Assessment of surface water.
5. What is solid waste? Describe the bio-degradable and non - bio-degradable waste with suitable examples.

### **SECTION-B**

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

**Note :** Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Define biodiversity levels and biodiversity values.

2. What is air environment? Explain the various methods of air quality monitoring.
  3. Describe the various factors responsible for environmental degradation.
  4. What is energy auditing? Explain with suitable examples.
  5. Write short notes on any *two* of the following :
    - (a) Management of non-biodegradable solid waste.
    - (b) Environmental auditing.
    - (c) Natural resources.
    - (d) Noise pollution.
  6. Write short notes on any *two* of the following :
    - (a) Measurement of water quality parameters.
    - (b) ISO-14001.
    - (c) Natural hazards.
    - (d) Pollution mitigation.
  7. Define geological hazards. What are the different types of geological hazards? Explain with suitable examples.
  8. Describe the measurement of noise indices.
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