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Total Number of Pages: 01

Course: M.Sc.I
Sub_Code: FCYE508

5th Semester Regular Examination: 2024-25

SUBJECT: Environmental Science

BRANCH(S): M.Sc.I(MC)

Time: 3 Hours

Max Marks: 70

Q.Code: R397

Answer Question No.1 (Part-I) which is compulsory, any five from rest (Part-II)

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions : (2 x 10)

- a) What are different parameters to be tested for potable water?
- b) Define environmental audit.
- c) Mention about criteria pollutants.
- d) Define noise pollution.
- e) What is meant by atmospheric dispersion?
- f) Give some examples of hazardous wastes.
- g) What is called terrestrial food chain? Give an example.
- h) What do you mean by environmental gradient?
- i) Explain the term "biochemical oxygen demand" in water bodies.
- j) What are fugitive emissions?

Part-II

Long Answer Type Questions (Answer Any five)

- Q2** a) Describe the energy flow in an ecosystem and its role in environmental processes. (5+5)
b) Explain the tolerance levels of environmental factors with examples.
- Q3** a) Describe the process of secondary treatment of wastewater. (5+5)
b) Write short note on anaerobic digestion.
- Q4** a) Write short note on hydrological cycle. (5+5)
b) Write briefly about Indian environmental laws for water and air pollution.
- Q5** a) Discuss the types and sources of air pollution. (5+5)
b) What is atmospheric dispersion? Discuss about coning and lofting type of plume.
- Q6** a) Describe the concept of waste minimization and its benefits. (5+5)
b) What are the elements of a waste minimization program?
- Q7** a) Explain the life cycle assessment in the context of waste management. (5+5)
b) What are different physical properties of sound?
- Q8** a) Outline the methods of MSW management. (5+5)
b) Explain the treatment systems used for medical hazardous waste.