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ESH 451

**Second Semester M.Sc. Degree Examination, September/October 2022
(CBCS)
ENVIRONMENTAL SCIENCE
Water and Wastewater Management**

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any four** of the following (**not** exceeding **2** pages **each**). **(4×4=16)**
- Sources of water.
 - Aquifers.
 - Water softening process.
 - Sludge drying beds.
 - Water table.
 - Wastewater characteristics.

Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**). **(5×6=30)**

- Physical and chemical properties of water.
- Groundwater quality.
- Methods of disinfection.
- Primary treatment of wastewater.
- Processes of water purification.
- Types of water demands.
- Water harvesting and watershed management.

Answer **any two** of the following (**not** exceeding **8** pages **each**). **(2×12=24)**

- Define water pollution. Describe the sources and types of water pollution.
 - Explain groundwater zones and system.
 - Write an essay on secondary treatment of wastewater.
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