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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)**

- a) Sources of water.
- b) Aquifers.
- c) Water softening process.
- d) Sludge drying beds.
- e) Water table.
- f) Wastewater characteristics.

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

- 2. Physical and chemical properties of water.
- 3. Groundwater quality.
- 4. Methods of disinfection.
- 5. Primary treatment of wastewater.
- 6. Processes of water purification.
- 7. Types of water demands.
- 8. Water harvesting and watershed management.

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

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