

Fourth Semester Bachelor of Science (B. Sc.)
(Part - II) Examination

ENVIRONMENTAL SCIENCE

Paper : VII

(Soil Pollution and Waste Management)

1. What do you mean by pesticidal pollution ? What are the effects of these pollution on soil environment ?

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OR

- (a) Which precautions should be taken after collection of soil samples before analysis ?

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- (b) Explain land use pattern with respect to Rural Planning for India.

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2. What are solid waste ? How are they classified ? Investigate the major sources of solid waste.

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OR

- (a) Describe the methods of transferring waste from primary collection to secondary collection vehicles.

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- (b) Give an informative note on recycling and reuse of solid waste.

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3. What are the objectives of solid waste sampling ?
Discuss the collection and handling of solid waste samples.

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OR

- (a) Explain a method of biogas formation from municipal solid waste.
- (b) Give a brief account on Municipal solid waste (Management and Handling Rules - 2000) framed by MOEF.
4. What are hazardous waste and how are they classified ? Explain important factors that should be considered for hazardous waste management plant.

OR

- (a) What are the hazards associated with poor Biomedical waste management ?
- (b) What is meant by site remediation ? Distinguish between offset and on-site remediation options.
5. Attempt any **ten** questions :—
- (i) Define soil pollution.
- (ii) What is NPK ? Explain their importance.
- (iii) What is the chemical name for DDT ?
- (iv) Explain the meaning of the terms Garbage and Rubbish.
- (v) What is pyrolysis ?

(vi) What is the composition of solid waste ?

(vii) What is Co-composting ?

(viii) Name the equipments used to collect the solid waste.

(ix) What are the essential features of a secure land fill ?

(x) What is e-waste ?

(xi) Mention the categories of Biomedical waste management.

(xii) Explain the 3-R principle of waste minimisation for hazardous waste.

1 × 10 = 10