NKT/KS/17/5158

Bachelor of Science (B.Sc.) Semester-IV (C.B.S.) Examination ENVIRONMENTAL SCIENCE Soil Pollution & Waste Management)

Paper—I

Time: Three Hours] [Maximum Marks:	50
N.B.:—(1) ALL questions are compulsory and carry equal marks.	
(2) Illustrate your answer with suitable examples and diagrams.	
1. What are the main objectives of soil sampling? Discuss the collection of samples and preservation.	its 10
OR	
(a) How pesticides endanger our life? Comment.	5
(b) What do you understand by biological magnification.	5
2. Discuss the physico-chemical properties of solid waste.	10
OR	
(a) Write informative note on reuse and recycle of solid waste.	5
(b) Explain disposal of solid waste by pyrolysis.	5
3. Classify the composting techniques based on oxygen use. What are the merits of vermi composting over conventional composting?	ing 10
OR	
(a) Write informative note on Municipal Solid Waste handling rules.	5
(b) What are the important control parameters for an optimum composting operation.	5
4. What are the hazardous wastes and how are they classified ?	10
OR	
(a) Express your views on hospital waste management.	5
(b) Discuss the environmental problems associated with nuclear waste.	5
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5. Attempt any ten:

- (a) What is persistent pesticides ?
- (b) What do you understand by Bio-remediation?
- (c) What is the chemical name for DDT.
- (d) Write a brief report on composition of solid waste.
- (e) Name the factors affecting solid waste generation rate.
- (f) What are the factors that need to be considered while considering incineration.
- (g) What is the significance of solid waste sampling?
- (h) How biogas is generated from MSW.
- (i) What are the different steps of composting?
- (j) Name the factors that should be considered for hazardous waste management plant.
- (k) Which type of containers are commonly used in Biomedical waste.
- (1) Differentiate between hazardous and non-hazardous waste. $1\times10=10$

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