

**School of Basic Sciences**  
**Bachelor of Science Honours in Chemistry**  
**Semester End Examination - Jun 2024**

**Duration : 180 Minutes**  
**Max Marks : 100**

**Sem IV - C1UB406T - Waste Management**

General Instructions

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

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|-----------|--|---------|
| 1)        | Explain the process of hazardous waste characterization?   | K1 (3)  |
| 2)        | Outline the Bio Medical Waste Management Rules, 2016?  | K2 (4)  |
| 3)        | Explain the recycling of plastics benefit the environment?   | K2 (6)  |
| 4)        | Identify and classify the radioactive wastes?  | K3 (6)  |
| 5)        | Identify the key components of a solid waste management plan?  | K3 (6)  |
| 6)        | Identify and analyze the composition of solid waste and its implications for waste management strategies?                      | K3 (9)  |
| 7)        | identify how do the Plastic Waste Management Rules of 2016 contribute to environmental sustainability?                         | K3 (9)  |
| 8)        | Analyze the role of construction and demolition waste management in sustainable urban development?                             | K4 (8)  |
| 9)        | Analyze a risk assessment model for radioactive waste disposal sites, considering environmental and human health impacts?      | K4 (12) |
| 10)       | Explain the ethical considerations surrounding the handling of biomedical wastes?  | K5 (10) |
| 11)       | Explain innovative approaches to waste management that prioritize environmental sustainability?                                | K5 (15) |
| <b>OR</b> |  |         |
|           | Explain the feasibility of implementing zero-waste initiatives at the municipal level?   | K5 (15) |
| 12)       | Discuss a strategic roadmap for achieving the Sustainable Development Goals related to waste management at the national level? | K6 (12) |
| <b>OR</b> |  |         |
|           | Discuss the historical evolution of hazardous waste regulations globally.  | K6 (12) |