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BTECH
(SEM VIII) THEORY EXAMINATION 2021-22
SOLID WASTE MANAGEMENT

Time: 3 Hours**Total Marks: 70****Notes:**

- Attempt all Sections and Assume any missing data.
- Appropriate marks are allotted to each question, answer accordingly.

SECTION-A	Attempt All of the following Questions in brief	Marks (7X2=14)
Q1(a)	List the sources of domestic solid waste.	
Q1(b)	Write biological properties of solid waste	
Q1(c)	Distinguish between solid waste and hazardous waste.	
Q1(d)	Specify the role of transfer station in municipal solid waste management?	
Q1(e)	Point out the factors to be considered while disposing solid waste	
Q1(f)	Define integrated waste management.	
Q1(g)	List the various activities of NGO's.	

SECTION-B	Attempt ANY THREE of the following Questions	Marks (3X7=21)
Q2(a)	Municipal solid waste is generated within the community from several sources, not just the household. List and discuss these sources.	
Q2(b)	Write briefly on Hauled – Container Systems (HCS) for collection of solid wastes.	
Q2(c)	Write briefly on the rules to be kept in mind while designing the collection route?	
Q2(d)	Describe the incineration technologies and air emissions and its control in detail.	
Q2(e)	What is the source of Biomedical waste. Discuss classification and their characteristics of bio medical waste.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X7=7)
Q3(a)	State the key role of public in solid waste management.	
Q3(b)	What are the problems associated with solid waste if not handled properly . Discuss their impacts on environment health.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X7=7)
Q4(a)	Identify the activities responsible for successful implementation of collection system.	
Q4(b)	List out the factors to be considered while deciding collection efficiency in a SWM system.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X7=7)
Q5(a)	Explain the various phases of municipal solid waste decomposition in a closed landfill cell.	
Q5(b)	Explain Integrated Solid Waste Management by citing out the political, environmental and economic aspects along with its advantages.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X7=7)
Q6(a)	Describe the various techniques of hazardous waste processing and methods of disposal.	
Q6(b)	Explain EPA - identification of hazardous and toxic waste. Write down the characteristics of hazardous waste.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X7=7)
Q7(a)	Write short notes on legal aspects of solid waste disposal.	
Q7(b)	Discuss in detail global strategy of E-waste and explain recycling and reuse of E-waste.	