

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VIII CIVIL :SUMMER- 2022
SUBJECT : SOLID WASTE MANAGEMENT

Day : Wednesday
Date : 22-06-2022

S-13643-2022

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labeled diagram **WHEREVER** necessary.
 - 4) Assume suitable data of necessary.
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Q.1 What is solid waste management? What are the essential reasons for an analysis of the composition, characteristics and quantities of solid wastes? **(10)**

OR

Q.1 What is the interrelationship of the functional elements in a solid waste management system? Explain. **(10)**

Q.2 What are the components of waste collection system? What is the present scenario of MSW collection? **(10)**

OR

Q.2 What are different collection systems based on mode of operation? Explain. **(10)**

Q.3 What is the present scenario of transportation of MSW? Explain measures to be taken to improve the system. **(10)**

OR

Q.3 Discuss the types of transfer stations and the benefits of transfer stations that affect community in terms of economics, time savings and environmental quality. **(10)**

Q.4 What are the objectives of sorting? Explain primary, secondary and tertiary sorting. **(10)**

OR

Q.4 Explain Material Recovery at the Source, Community Bin and Waste Storage Depot. **(10)**

Q.5 How does composting work? What are the factors affecting composting process? Explain. **(10)**

OR

Q.5 What is sanitary landfill? Explain with sketch **(10)**

Q.6 What is vermicomposting? Explain the factors affecting vermicomposting. **(10)**

OR

Q.6 What are the different advanced technologies for solid waste treatment? Explain any one process in detail **(10)**

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