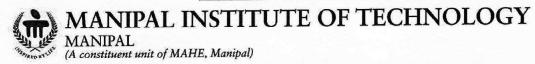
Reg. No.			



VI SEMESTER B.TECH. (CIVIL ENGINEERING) MAKE UP EXAMINATIONS JUNE 2023

SUBJECT: SOLID WASTE MANAGMENT (CIE 4058)

/ / 2023

TIME: 3 HRS.

MAX. MARKS: 50

Note: 1. Answer all questions.

2. Any missing data may be suitably assumed.

Q.NO	QUESTION	Marks	СО	BL
1A.	List the key features of solid waste management rules in India.		CO1	1
1B.	B. Define (i) Garbage (ii) Refuse (iii) Solid waste (iv) Rubble		CO2	2
1C.	Discuss in detail the source-based classification of solid waste.		CO2	2
2A.	. With a neat sketch explain the functional elements of solid waste management.		CO2	2
2B.	Explain the physical transformation process of solid waste.		CO4	2
2C.	What are the health and environmental effects of solid waste?	02	CO2	1
3A.	With a neat sketch define the terms with reference to Hauled container system (i) Pick up (ii) Haul (iii) At-site (iv) Off-route		CO3	3
3B.	Give the guidelines for laying out solid waste collection route.		CO3	2
3C.	With a neat sketch explain the different types of magnetic separators.		CO5	2
4A.	With a neat sketch explain the waste management hierarchy.		CO5	. 2
4B.	With the neat sketch differentiate between area method and trench method of landfilling.		CO4	2
4C.	Enumerate the typical restriction to be observed during landfill siting.		CO4	2
5A.	With the neat sketch explain fixed bed incinerators stating its application.		CO4	2
5B.	Explain the effect of moisture content and carbon- nitrogen ratio in composting of solid waste.		CO5	2
5C.	Explain the method of backyard composting in detail.	03	CO5	2

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