Reg. No.:										
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Question Paper Code: 96T04

M.E. DEGREE EXAMINATION, MAY 2022

Open Elective

19PPE604-Bioenergy From Waste

(Regulation 2019)

	(Regulation 2019)			
Dui	ration: Three hours	Maximum: 100 Marks		
	$PART - A (5 \times 20 = 100 \text{ Marks})$ (Answer All questions)			
1	(a) Give brief description on LCA and MRF.	CO1- U	(20)	
	Or			
	(b) Briefly describe about the Municipal Solid Waste (MSW), Industrial waste and Biomedical Waste (BMW).	CO1- U	(20)	
2	(a) What is incineration? Explain briefly about its types.	CO2- U	(20)	
	Or			
	(b) What are the types, methods and sitting consideration of landfill classification.	CO2- U	(20)	
3	(a) What is pyrolysis? Explain the process with schematic diagrate to convert MSW to electricity.	am CO3-U	(20)	
	Or			
	(b) What is briquetting process? Discuss about its utilization and advantages of briquetting.	d CO3-U	(20)	
4	(a) Explain the process involved in Anaerobic digestion of sewa and municipal wastes.	ge CO4- U	(20)	
	Or (b) Briefly explain about land fill gas generation and utilization.	CO4- U	(20)	
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5. (a) Explain briefly on Environmental and health impacts of waste CO5- U to energy conversion. (20)

Or

(b) Discuss about the rules related to the handling, treatment and CO5- Ana (20) disposal of MSW and BMW in India.