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Sl. No.

21BTH3E1CL

M.Sc. III Semester Degree Examination, April/May - 2023 BIOTECHNOLOGY

Biofuels and Bioenergy

Time : 3 HoursMaximum Marks : 70			
Not	t e : (i, (i	compulsory, each question carries equal marks.	
1.	(a)	Explain about various types of biofuels and their applications.	7
	(b)	Brief about various biofuel feedstocks and their properties.	7
2.	Exp	lain in detail on production and applications of Biobutanol.	14
3.	Exp	lain the production of biodiesel by using micro-organisms and algae.	14
4.	(a)	What are biogas and biomethane ?	5
	(b)	What are the differences between biomethane and green gas ?	5
	(c)	Discuss Bioethanol as replacement for petrol.	4
5.	Disc	cuss in detail about life cycle assessment of various biofuels.	14
6.	(a)	Explain about the properties of Bioethanol and Biobutanol.	7
	(b)	Brief on technology applications for Bioethanol.	7
7.	-	lain in detail about production of biogas, and write about its economic ortance.	14
8.	(a)	Do biofuels affect the production of food ? Discuss.	7
	(b)	Discuss about current and future perspectives on lipid-based biofuels.	7

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