

Total number of printed pages: Programme (PG)/2nd /MFE2111

2025

UTILIZATION OF FOOD INDUSTRY BYPRODUCTS

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

1.	a)	How processing/utilization of food industry waste is useful? What is pectin? Write Green Technology for pectin extraction. Write its commercial applications.	5+3+6+6=20
2.	a)	Define functional food. Write name of food industry by-products . How dietary fiber can be produced from these by-products?	3+3+14=20
3.	a)	Briefly write how different agricultural wastes are utilized to produce paper/board/packing materials.	20
4.	a)	What is valorization of food waste? Write Acidogenic fermentation for production of Biohydrogen and Carboxylates.	5+15=20
5.	a)	Write Methanogenesis reaction for Biomethane production from food waste.	10
	b)	Write potential examples of different value added products from fruit and vegetable processing industry by-products.	10
6.	a)	Write very briefly: Bioalcohols, Biohythane, Biopolymer, Biodiesel, Bioelectrogenesis	20
7.		Write briefly fermentative production of ethanol from sugarcane industry by-products molasses.	20