

Total number of printed pages: Programme (PG)/2nd /PFET2111

2023

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)	Write potential examples of different value added products from fruit and vegetable processing industry by-products.	20
2.	a)	Write briefly fermentative production of ethanol from sugarcane industry by-products molasses.	14
	b)	What is pectin? Write its commercial applications.	3+3
3.	a)	Discuss briefly saccharification and fermentation process for vinegar production from food industry by-products.	12
	b)	Briefly write about utilization of potato peels.	8
4.		Write about synthesis of furfural from bagasse. Mention commercial application of furfural.	20
5.	a)	Discuss about vermi compost formation from crop waste. What is the worm name?	12
	b)	Which extraction methods are used for separation of azeotrope ethanol water mixture to get anhydrous alcohol? Mention the process names only.	8
6.	a)	Write how tapioca processing waste is useful to produce biogas?	12
	b)	How processing/utilization of food industry waste is useful?	8
7.		Briefly write how different agricultural wastes are utilized to produce paper/board/packing materials.	20