LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – FOOD CHEMISTRY AND FOOD PROCESSING

THIRD SEMESTER - **NOVEMBER 2023**

PFP 3503 - PLANT PRODUCT PROCESSING

	te: 04-11-2023 Dept. No. ne: 01:00 PM - 04:00 PM	Max. : 100 Marks
	PART – A	$(10 \times 3 = 30 \text{ Marks})$
Q. No	Answer ALL questions	
1	How are cereal grains malted?	
2	List the types of corn.	
3	Suggest measures to increase the nutritional composition of legumes.	
4	How are pulses graded?	
5	Mention the quality indicators of jam.	
6	Recognize the methods used for artificial ripening of fruits.	
7	Define hydrogenation of oils and give examples.	
8	Draw the processing flow chart for dehydrating coconut.	
9	Name the traditional varieties of sugars available in India.	
10	Define condiments.	
	PART – B	(5 x 8= 40 Marks)
	Answer ALL the questions	
11	(a) Give an account on the various value added millet products. (OR)	
	(b) Examine the manufacturing process of refined wheat flour and whole whe	at
	flour.	
12	(a) Determine the impact of temperature on the formulation of sugar based candies.	
	(OR)	
	(b) Write short notes on the various health effects of spices.	
13	(a) Discuss the various anti-nutritional properties of pulses and ways to overco	ome
	them.	
	(OR)	
	(b) Classify legumes and illustrate the structure of a pea.	

(OR)

(a) Write short notes on the preservation of fruits.

(b) Outline the processing protocol of marmalades.

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15 (a) Examine the role of imitation dairy products in food industry. (OR) (b) Write short notes on protein based fat substitutes. PART - C $(2 \times 15 = 30 \text{ Marks})$ **Answer any TWO questions** Propose appropriate milling technology for pulses. 16 Discuss in detail the manufacturing of chocolate from cocoa beans. 17 Elaborate on the post-harvest technology of fruits and vegetables. 18 Devise a processing protocol for the following: 19 (10 + 5)Refining of oils Extending the shelf-life of oils.

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