Cont...

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022

(First Semester)

Branch - FOODS AND NUTRITION

FOOD PROCESSING TECHNOLOGY/TECHNIQUES IN FOOD PROCESSING

	Time: Three Hours			The second secon	CCESSING
		ION.	A (5 Marks)	Maximum: 5	0 Marks
	Answ	er Al	L questions		
•	ALL questions	carry	EQUAL marks	(5 x 1	= 5)
1	Which of the following operation	n is r	elated to extrusion	•	3)
· · · · · · · · · · · · · · · · · · ·	(iii) Welding		(ii) Casting(iv) Fitting		
2	Choose which process in leg enzymes break down, the legum palatability and nutritive value.	umes e pro	increases the ottein, enhances co	digestibility, oking process	the microbial and improves
	(i) Puffing (iii) Fermentation		Over cooking Milling or decor	ctication	
3	Which nutrient source is low in g	green	leafy vegetables?		
	(i) Fiber (iii) Iron	(ii)	Carbohydrates Vitamin K	e e e e e e e e e e e e e e e e e e e	
4	Indicate the cold storage tempera				
	(i) -20°C to -10°C	(ii)	-10°C to -9°C		
	(iii) -9°C to -5°C		-1°C to 0°C		
5.	Name the process in which the te within 30 min. (i) Refrigeration	mper		owered to abou	ıt -20°C
	(iii) Rapid freezing	` ′	Irradiation		
•	SECTIO	` '	3 (15 Marks)		•
	Answer	ALI	Questions		
	ALL questions	carry	EQUAL marks	$(5 \times 3 =$: 15)
6. a) S	tate the dry milling process for ma	ize			
	(OR)				
b) C	Classify the breakfast cereals.				
7. a) Ė	lucidate the methods of oil extract	ion.			
b) E	(OR) xplain any three soya bean produc	ets			
			•		
0. a) C	ompare jaggery and sugar. (OR)				•
b) E	xplain processing methods of coff	ee.			
9. a) D	iscuss homogenised milk.				
b) Sl	(OR) ketch the freezing process of mush	room	s.		
10. a) S	tate the followings: i) Thermal dea	ath ti	me ii) Thermal de	eath point.	
b) D	Octormine the advantages and disactions of the disaction	ivant:	ages of Pulse elec	tric field	

22NDP104/18NDP04

Cont...

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL marks

 $(5 \times 6 = 30)$

11. a) Interpret different types of wheat milling.

(OR)

- b) Elucidate manufacturing processes for breakfast cereals.
- 12. a) Design the extraction of oil from oil seeds.

(OR)

- b) Interpret the winterization process.
- 13. a) Enumerate the benefits of edible coatings.

(OR)

- b) Appraise the medicinal properties of jaggery.
- 14. a) Interpret the processing of milk at Dairy farm.

(OR)

- b) Assess the principles and importance of meat processing and preservation.
- 15. a) Determine the colouring agents of spices.

(OR)

b) Justify the role of Artificial Intelligence (AI) and Machine Learning (ML) in food industry.

Z-Z-Z END