2021

(Held in 2022)

Paper: FPT/FPM-VC-1016

(Basics of Food Processing)

(Food Processing Technology/Food Processing and Quality Management)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the question

1.	Answer the following as directed.	1X7=7
	a) Define "raw material".	
	b) Write full form of GMP.	
	c) Define quality.	
	d) What is size reduction?	
	e) pH scale is ranging from to (Fill in the blanks)	
	f) ppm stands for (Fill in the blank)	
	g) WVTR stands for Water Vehicle Transport Rate. (State 'True' or 'False')	
2	. Answer the following questions:	2X4=8
	a) Define food. Based on perishability, classify food with one example each.	
	 b) Define endotoxin, exotoxins and mycotoxin. 	
	 Define pasteurization. Write main objective of pasteurization. 	
	d) What is the difference between sorting and grading?	
3.	. Answer the following (any three):	5X3=15
	 a) Intrinsic and extrinsic properties of food 	
	b) Antioxidant	
	c) Cleaning and sanitization	
	d) Adulteration	
	e) Structure of wheat	
4.	. Answer the following (any three):	10X3=30
	a) Define food packaging. Classify them with example. Write four	
	characteristics of food packaging material. Why food packing is called as	J

b) Define food processing. Describe primary processing and secondary processing with suitable example? How food irradiation helps in food

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processing.

- c) Define hazard and classify them with example. Write the full form HACCP and PRP. How many principles are there in HACCP, write them properly.
- d) Solve the problems:
 - i) Use a Pearson Square method to calculate the amount of orange juice (10% sugar content) and sugar syrup (50% sugar) needed to produce 60 kg of fruits squash containing 15% sugar.
 - ii) How will you prepare 250 mL of 0.1 N NaOH solution?
 - iii) How will you prepare 100 mL of 0.5 N NaOH solution from 2 N NaOH solution?
- e) What is preservation and preservatives? Classify them with example. Write any two methods of preservation in detail.

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