AT-366

B.Sc. (Part-II) Semester-IV Examination FOOD SCIENCE

		(Food Preservation a	nd Qu	ality Control)
Time : 7	Three	Hours]		[Maximum Marks: 80
No	te :-	-(1) ALL questions are compulsor	ý.	
		(2) Draw a well labelled diagram,	if neces	ssary.
1. (A)	Fill	in the blanks:		2
1. (A)	1 1111	III the branks.		2
	(i)	Meaning of FPO		
	(ii)	Any one method of drying		
	(iii)	The preservatives that are not harmf	ul are k	nown as class preservatives.
	(iv)	Any one function of packaging		•
(B)	Cho	ose the correct alternative :		2
	(i)	Under or over volume of bread is		spoilage.
		(a) Chemical	(b)	Microbiological
		(e) Physical	(d)	None of above
	(ii)	Low temperature		
		(a) Kill the microorganisms	(b)	Stop the growth
		(c) Increase the growth	(d)	None of above
	(iii)	Preservation by irradiation uses		
		(a) Temperature	(b)	Electromagnetic waves
		(c) Low temperature	(d)	Pressure
	(iv)	PFA is related with:		
		(a) Spoilage	(b)	Packaging
		(c) Nutrition	(d)	Adulteration
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	(C)	Answer in one sentence:	4
		(i) What is trimming?	
		(ii) Define freezing.	
		(iii) What are class II preservatives ?	
		(iv) What is sun—drying?	
2.	Wh	at is food spoilage? Explain the factors affecting food spoilage with examples.	12
		OR	
	Def	ine 'Quality'. Explain the factors contributing to the quality.	12
3.	(A)	Explain any one method of preservation by low temperature.	4
	(B)	What are the principles of food preservation?	4
	(C)	What is the difference between refrigeration and freezing?	4
		OR	
	(P)	Explain the applications of low temperature preservation with examples.	4
	(Q)	Give an account of importance of food preservation.	4
	(R)	Explain the types of freezing.	4
4.	(Δ)	Explain the canning process with flow diagram.	4
	(B)	What is drying? Enlist the various methods of drying.	4
	(C)	Differentiate between pasteurization and sterilization.	4
		OR	
	(P)	What are the factors that affect the time of sterilization?	4
	(Q)	Discuss the various factors important in effective drying.	4
	(R)	Discuss mechanical drying.	4
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5.	Exp	lain microwave oven with diagram, compare it with conventional oven.	12
		OR	
		ine Class I and Class II preservatives with example. Explain preservation by pickling osis.	and
6.	(A)	What is HACCP? Discuss its need.	4
	(B)	Define adulteration. Give its types.	4
	(C)	Explain MNPO and FPO.	4
		OR	
	(P)	Explain the simple methods to find our adulteration in milk and honey.	4
	(Q)	Explain Agmark.	4
	(R)	What are the principles of HACCP?	4
7.	(A)	Discuss the functions of packaging.	4
	(B)	Discuss the mandatory food labelling.	4
1	(C)	What are the sources of food contamination?	4
		OR	
1	(P)	What are the rules for choosing the correct cleaning agent?	4
((Q)	Discuss the importance of personal hygiene.	4
((R)	Discuss Flexible Films as packaging material.	4

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