

KERALA AGRICULTURAL UNIVERSITY

B.Tech.(Food Engg) 2017 Admission III Semester Final Examination-January 2019

Fdqu.2104

Biochemistry of Processing and Preservation(1+1)

Marks:50

Time: 2 hours

I		Fill in the blanks:	(10x1=10)
	1	is the most common effective method of food processing	
	2	The most important biochemical reaction responsible for the development	
		taste and aroma is	ar or opposition
	3	During the viscosity of the starch mixture increases, followed	by imbibition
		of water.	,
	4	Leaching ofis responsible for sticky nature of starch a	gel.
		Choose the correct answer	
	5	Degradation products of starch	
		a. Dextrin b. Fructan c. Galactose d. Sucrose	
	6	Natural preservative is	
		a. Vitamin E b. Vitamin B c. Cellulose d. Salt	
		State True or False	
	7	Organic acid found in the apple is mevalonic acid.	
	8	Parboiling increases the fat content in rice.	
	9	Amylases hydrolyze α1	
	10	Fructose is sweeter than sucrose.	•
		Write Short notes on ANY FIVE of the following	(5x2=10)
	1	Changes associated with storage of fruits and vegetables including cold s freezing	torage and
	2	Preservation of food by salt	
	3	Browning reaction in food	
	4	Rancidity	
	5	Parboiling	
	6	Food irradiation	
	7	Gelatinization	
		Answer ANY FIVE of the following	(5x4=20)
	1	Differentiate browning and mailard reaction.	` ,
	2	How the nutrient loss can be minimized during cooking process.	
	3	List down the major organic acids present in fruits and write their role.	
	4	Maturation of fruits and vegetables.	
	5	Nutritional quality factors.	
	6	Food stabilizers	
	7	Principle of spectrophotometry and its applications in food industries.	
IV		Answer ANY ONE of the following	(1x10=10)
	1	Biochemical changes happening during cooking in food.	,
	2.	Various factors affecting the quality of foods	