KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food. Engg) 2014 Admission III rd Semester Final Examination-January -2016

Cat. No: Fdqu.2104 Title: Biochemistry of Processing and Preservation (1+1)	Marks: 50.00 Time: 2 hours
I Fill up the blanks	(10 x 1=10)
1. Exudation water from the gel is known as	w.
2is the common form in which so₂ is used as	a preservative
3. Complete destruction of micro organisms is called	·
4. Putrefaction means the breakdown of	Ť
5. Process of removing air from the cans is called	
Define	17
6. Blanching	
7. Denaturation	
- 8. Rancidity	
9. Maillard reaction	
10. Thermal death time curve	
II Write short notes on any Five questions	(5 x 2=10)
1. Explain how sugar acts as a preservative	
2. Discuss on pasteurization	
3. Write about electrophoresis	
4. Give a note on food irradiation	
5. Discuss on the principles involved in the removal of moisture fr	om foods
6. Explain the relationship between pectin, acid and sugar in jelly f	formation
7. Define Beer-Lambert's law	
III Write short essay on any FIVE questions	(5 x 4=20)
1. Discuss on fermentation for preservation of foods	
2. Define chromatography and explain the types of chromatograph	y .
3. Discuss on the biochemical changes during storage of fruits	
4. Write on the changes occurring in starch during cooking	•
5. Discuss on the measures to be adopted to prevent the nutrient lo	ss during cooking
6. Explain the methods of dehydration	
7. Give a note on preservatives	

IV Write essay on any ONE

(1 x 10=1

- 1. Explain browning reaction with ways to prevent enzymatic browning reactions
- 2. Explain briefly about the different methods of food freezing along with the occurring during freezing and thawing