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)
Exudation water from the gel is known as	
2is the common form in which so ₂ is used as a pr	eservative
3. Complete destruction of micro organisms is called	-
4. Putrefaction means the breakdown of	
5. Process of removing air from the cans is called	
Define	
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 from	foods
6. Explain the relationship between pectin, acid and sugar in jelly form	nation
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 chromatography	
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 loss d	luring cooking
6. Explain the methods of dehydration	

7. Give a note on preservatives

IV Write essay on any ONE

(1 x 10=10)

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