KERALA AGRICULTURAL UNIVERSITY
B.Tech (Food. Engg) 2013 Admission
IV<sup>th</sup> Semester Final Examination-June/July -2015

Cat. No: Fden.2205 Title: Food Processing Engineering (2+1)	Marks: 50.00 Time: 2 hours
I Define /Fill up the blanks	$(10 \times 1=10)$
1. Mixing index	
2. Blanching	
3. Sterilization	
4. Pasteurization	
5. Dehydration	
6. Refrigeration principle is used indryer	
7. Unit of viscosity is	
8is also called as cold sterilization	
9. Movement of water in food drying is byforce	
10. Heat is generated due toin food material in microwave hea	iting
II Write short notes on any FIVE questions	$(5 \times 2=10)$
1. Extruded products	
2. Thermal death time	
3. Freeze concentration	
4. Psychrometry	
5. Sensory characteristics of food	
6. Energy conservation	
7. Screw conveyor	
III Write short essay: on any FIVE questions	$(5 \times 4=20)$
Explain working principle of tray dryer	
2. Discuss low temperature preservation	
3. Explain Osmotic dehydration	
4. Discuss Ohmic heating of food	
<ol><li>Explain principle and working of bucket elevator</li></ol>	
6. Discuss working of twin screw extruder with neat sketch	
7. Explain high pressure processing	(1 - 10-10)
IV Write an essay on any ONE	$(1 \times 10=10)$
1. Discuss drying characteristics of food materials with suitable examples	
2. Discuss equipments used for mixing solids ,liquids and pastes	