## KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2012 Admission
IV<sup>th</sup> Semester Final Examination- July -2014

Cat. No: Fdpr.2201 Title: Post Harvest Engineering o	f horticultural Cro	ops (2+1)	Marks: 80 Time: 3 hou
	Part A		
Answer the following			$(10 \times 1.0 = 10.0)$
	•		Notes to these servery
Fill up the blanks			
1. Non-enzymatic browning is also c	alled as		
<ol><li>If respiration of fruits stops af</li></ol>	ter harvest is calle	ed as	
<ol><li>is maturity index fo</li></ol>	r tomato.		
<ol><li>Papaya produces ethyle</li></ol>			
5. Sprouting of potato can be preve			
6 pretreatment is given			ng.
7. TSS in jelly as per FPO specifica			-
8 peeling is used for peeling			
9. Shelf life of fruits can be increa		CO2 con	centration.
10. Tomato is classified asacid	food.		
		e e	
	Part B	a.	3 10 3 4
Answer any TEN of the following	r k		$(10 \times 3.0 = 30.0)$
		(2)	
Write short note on			
			<b>(</b> <sup>□</sup>
1. Post harvest losses			
2. Maturity indices			•
3. Blanching			
4. Water activity			
5. Chemical dips.			
5. Jam production.			
7. Modified atmospheric storage			
3. Osmotic dehydration			
9. Irradiation			
O. Tomato products			
11. Products from banana.			
12. Physiological loss in weight			

## Part C

## Answer any SIX questions

 $(6 \times 5.0 = 30.0)$ 

- 1. Explain measurement of maturity index measurement.
- 2. Discuss dehydration of fruits and vegetables?
- 3. Explain minimal processing of fruits and vegetables.
- 4. Discuss citrus fruits processing and preservation.
- 5. Discuss processing of mushroom.
- 6. What are the basic requirements for packaging of horticultural crops?
- 7. Discuss cooling load calculations in cold storage.
- 8. Explain vacuum packaging of fruits.

## Part D

Answer any ONE question

 $(1 \times 10.0 = 10.0)$ 

- 1. Discuss controlled and modified atmospheric storage of fruits & vegetables.
- 2. Discuss processing of mango and pineapple?

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