

Code No: **RT41353**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 POST HARVEST ENGINEERING FOR HORTICULTURE PRODUCE

(Agricultural Engineering)

Time: 3 hours Max. Marks: 70

> Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A

		Answer any THREE questions from Part-B *****	
		PART-A (22 Marks)	
1.	a)	Write about the physical properties affecting the quality fruits and vegetables.	[4]
	b)	Briefly explain the factors affecting the effectiveness of a sprayer.	[4]
	c)	Write about the spoilage canned foods.	[4]
	d)	Write about centralized cold storage centers.	[4]
	e)	Draw the flow chart for preparation of citrus juice.	[3]
	f)	Draw the flow chart for extraction of chilli oleoresin.	[3]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Write in detail about the electrical properties affecting the quality of fruits and	
		vegetables.	[8]
	b)	Write in detail about the pre harvest factors affecting the quality of fruits and	
		vegetables.	[8]
3.	a)	Define grading? Explain in detail about different types of graders used for grading of	507
	1 \	fruits and vegetables.	[8]
	b)	Write in detail about the modern techniques used for determination of maturity	507
		standards of fruits and vegetables.	[8]
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4.	a)	Write in detail about the different methods of freezing of fruits and vegetables.	[8]
	b)	With the help of a flow chart explain the canning process of fruits and vegetables.	[8]
5.	a)	Explain in detail about MAP and its maintenance.	[8]
	b)	What is CAS? Write in detail about the effects, advantages and disadvantages of	
		CAS.	[8]
6.	a)	Write in detail about the preparation of mango juice with the help of flow chart.	[8]
	b)	Write about packaging of apples and oranges.	[8]
7.	a)	Explain about the solvents used for extraction of oleoresin along with advantages and	
		disadvantages.	[8]
	b)	Explain in detail about the quality characteristics of fruits and vegetables required for	
		processing.	[8]
		1 of 1	