Total number of printed pages: 02 Programme (Diploma)/5th Semester/DFET 501

2022

Food Engineering Operations-I

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

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		Full Marks: 100		
		Time: Three hours	3.302	
		The figures in the margin indicate full marks for the questions.		
		Answer any five questions.	~ ~ ·	
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1.	a)	What is pasteurization? Explain any one method.	5+5=10	
	b)	Write down the importance of pasteurization.	10	
2.	a)	During the harvesting of paddy moisture of the paddy is 18% wet basis.	10	
		Convert it in to dry basis.		
	b)	Explain the relationship between dry basis of moisture content and wet	10	
		basis moisture content.		
3.	Differentiate the following			
	a)	Compression and Shearing forces in Size reduction	10	
	b)	Wet basis and Dry basis of moisture content	10	
		0,		
4.	a)	With neat labeled diagram discuss centrifugal milk separator.	3+7=10	
	b)	With neat labeled diagram explain batch type pasteurizer.	3+7=10	
5.	a)	Describe a belt conveyor with its application in food processing.	10	
	b)	Describe a bucket elevator with a neat diagram and its application in food	10	
		processing.		
6. 🗸	Writ	te short notes on the following		
\checkmark	a)	Pneumatic Conveyor	5	
	b)	Law of conservation of energy	5	
	c)	Screw Conveyor	5	
	d)	Homogenizer	5	
7.	a)	What do you mean by Size reduction? Discuss different objective of size	10	

 b) Write the law of conservation of mass. Discuss different Steps/process involved in solving Mass balance problems 	10
involved in solving Mass balance problems	