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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III (OLD) EXAMINATION - WINTER 2017 Subject Code:131401 Date: 14/11/2017 Subject Name: Food Chemistry Time: 10:30 AM to 01:00 PM Total Marks: 70 Instructions: 1. Attempt all questions. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Describe the classification of food proteins with suitable examples. 07 (b) State various disaccharides and explain the structure and properties of any 07 one disaccharide. Q.2 (a) What is dextrin? Explain the role of maltodextrin in food processing. 07 (b) State various pigments found in food and write in detail about any two 07 pigments (b) What is effect of chemical structure of water molecule on it's properties? 07 Q.3 (a) Explain chemical properties of proteins 07 (b) What is polyols? Explain how polyols are useful in foods. 07 OR Q.3 (a) Write in detail the importance of water activity in food. 07 (b) Describe the criteria to select the food additives to be used in processed food 07 products. Q.4 (a) Define food additives and explain the various functions of food additives. 07



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	(b)	Enlist various methods moisture estimation and explain any one.	07
		OR	
Q.4	(a)	What are the class-I and class-II preservatives? Explain class-II preservatives	07
	(b)	Write in detail about simple lipids.	07
Q.5	(a)	State the role of following food additives.	07
		a. Leavening agent b. Anticaking agent	
	(b)	Differentiate between saturated and unsaturated fatty acids. Write in detail	07
		about essential fatty acid	
		OR	
Q.5	(a)	Write the detail classification of carbohydrate with suitable examples.	07
	(b)	Describe the phenomena of protein gel formation with it's supporting theories	07
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