Seat No.:	Enrolment No.
-----------	---------------

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – SUMMER • 2014

	•	Code: 131401 Date: 30-05-2014	
Tir	ne: (tructio		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is disaccharide? State the properties and sources of maltose. Explain the procedure to estimate the moisture content using nuclear magnetic resonance method.	07 07
Q.2	(a)	Describe the protein denaturation phenomena with its effects on properties of protein.	07
	(b)	Explain the relationship existed between water activity of foods and shelf life.	07
	(b)	OR Give classification of lipid with suitable examples.	07
Q.3	(a) (b)	Define flavonoids. Enlist different flavonoids and state their importance. Write short notes on: i) Deoxy sugars ii) Sugar alcohols	07 07
		OR	
Q.3	(a) (b)	Enlist plant originated pigments and describe any one in detail. Describe the process of refining during manufacture of refined edible oil	07 07
Q.4	(a)	Define food additives and state the functions of food additives in processed foods.	07
	(b)	Define carbohydrate and explain its role in food processing. OR	07
Q.4	(a) (b)	Explain various levels of protein structure. Describe the chemical properties of food lipids	07 07
Q.5	(a) (b)	Write a detailed note on 'methods for quality evaluation of food proteins. Write short notes on: i) Leavening agents ii) Class I preservatives	07 07
Q.5	(a)	OR Explain the process of conversion of chlorophyll into pheophorbides and state	07
	(b)	its effect on the food. Describe the techniques used to study the physical properties of proteins.	07
