GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III • EXAMINATION – SUMMER 2013

		BE - SEMIESTER-III • EXAMINATION – SUMMER 2013		
Subject Code: 131401 Date: 31-				
Subject Name: Food Chemistry Time: 02.30 pm - 05.00 pm Total Marks Instructions:				
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)		07 07	
Q.2	(a)	Enlist the various methods of moisture estimation of foods and explain any one.	07	
	(b)	 Safety of food additives Ideal characteristics of food additives Complex polysaccharides 	07	
	(b)	OR Explain the factors affecting the stability of chlorophyll with neat chemical structure.	07	
Q.3	(a)	State the properties of following sugars: a) Fructose b) Galactose	07	
	(b)		07	
Q.3	(a) (b)	· ·	07 07	
Q.4	(a) (b)	Write a detailed note on physical properties of lipids Describe the gel formation phenomena and theories of gel formation. OR	07 07	
Q.4	(a)	Draw a typical structure of protein and describe biological functions of food proteins.	07	
	(b)	Give detailed classification of food lipids.	07	
Q.5	(a)	What is water activity? Explain in detail the importance of water activity in foods.	07	
	(b)	State the functions and sources of following minerals (Any two) a. Calcium b. Iron c. Copper OR	07	
Q.5	(a) (b)		07 07	
