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## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2019

Subject Code: 2280009 Days Days Days Days Days Days Days Days			Date: 18-05-2019	ate: 18-05-2019	
Time Instrue 1. 2.	: 10: ctions Atte Mak	30 AM TO 01:30 PM	Total Marks: 80		
Q.1	(a) (b) (c)	Explain ultra-centrifugation techniques and their application Describe the SFC method for analysis of food and additives. Write note on application of Electrophoresis.		06 05 05	
Q.2	(a) (b) (c)	Define spectroscopy. Explain beer- lambert law. How the sp techniques are useful in food analysis. Explain UV–VIS spectroscopy. Write note on mass spectroscopy.	1	06 05 05	
Q.3	(a) (b) (c)	Define chromatography. Explain HPLC. How it is useful in a Discuss Analysis of vitamins & pigments. Write note on immunoassays.	J	06 05 05	
Q.4	(a) (b) (c)	What is Electrophoresis? Explain gel electrophoresis. Explain the Food safety act. Write general chemical and instrumental methods for food a		06 05 05	
Q.5	(a) (b) (c)	Explain SFC and Flash chromatography. Discuss contaminants in food material and food additives. Write Standards for food additives.		06 05 05	
Q. 6	(a) (b) (c)	Explain Analysis of sugar, preservatives & starch products. Describe microbial contamination in food products. Write a note on effects and control of pesticides in food prod		06 05 05	
Q.7	(a) (b) (c)	Explain Analysis of herbs, spices & cereals. Discuss Stability studies of food products. Describe the application of centrifuge technique in food anal		06 05 05	

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