Seat No.: _____

Enrolment No. _____

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

8-05-2019
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Subject Name: Food Analysis

Time: 10:30 AM TO 01:30 PM Total Marks: 80

Instructions:

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Explain ultra-centrifugation techniques and their applications. 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 spectroscopic techniques are useful in food analysis. Explain UV–VIS spectroscopy. Write note on mass spectroscopy.	06 05 05
Q.3	(a) (b) (c)	Define chromatography. Explain HPLC. How it is useful in food analysis? Discuss Analysis of vitamins & pigments. Write note on immunoassays.	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 analysis.	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 products.	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 analysis.	06 05 05
