

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2016

Subject Code: 2280009**Date: 02-12-2016****Subject Name: Food Analysis****Time: 02:30 pm - 05:30 pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) Write a note on adulteration of hydrogenated fat in Ghee. | 06 |
| | (b) Explain the various methods for estimation of Nitrogen in food products. | 05 |
| | (c) Describe the role of food analysis in prevention of adulteration. | 05 |
| Q.2 | (a) Write down the principle of Iodometric titration. | 06 |
| | (b) Write down the method of determination of protein content by Biuret method. | 05 |
| | (c) Write a note on food standards. | 05 |
| Q.3 | (a) Describe the methods to estimate trace elements in food products. | 06 |
| | (b) Write down the method to determine rancidity in oil. | 05 |
| | (c) Write down the laboratory test to detect adulteration of starch in milk. | 05 |
| Q.4 | (a) Write down the laboratory test to determine brick powder in chili powder. | 06 |
| | (b) Write short note on stability of food products. | 05 |
| | (c) Explain Beer- Lambert law. How the spectroscopic techniques are useful in food analysis. | 05 |
| Q.5 | (a) What is genetically modified food? Write short note on how genetically modified food is analyzed? | 06 |
| | (b) Describe the various methods for analyzing various carbohydrates in food products. | 05 |
| | (c) Write a note on effects and control of pesticides in food products. | 05 |
| Q. 6 | (a) Define chromatography. Explain HPTLC. How it is useful in food analysis? | 06 |
| | (b) What are the responsibilities of authorities of food safety and standards? | 05 |
| | (c) Describe the application of centrifuge technique in food analysis. | 05 |
| Q.7 | (a) Write in brief about gel electrophoresis and its importance in food analysis. | 06 |
| | (b) Discuss the SFC method for analysis of food and additives. | 05 |
| | (c) Explain the method of determination of alkalinity of soluble ash in coffee. | 05 |
