

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – WINTER -2019

Subject Code: 2280009**Date: 27-11-2019****Subject Name: Food Analysis****Time: 02:30 PM TO 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.

- Q.1** (a) Define chromatography. Explain HPLC. How it is useful in food analysis? **06**
(b) Explain TLC method for analysis of food and additives. **05**
(c) Describe genetically modified foods. **05**
- Q.2** (a) Explain Beer- Lambert law. How the spectroscopic techniques are useful in food analysis. **06**
(b) Write a note on effects and control of flavours in food products. **05**
(c) Write note on SFC method. **05**
- Q.3** (a) Write in brief about paper electrophoresis and its importance in food analysis. **06**
(b) Explain the method of determination of ash. **05**
(c) Describe Stability studies of food products. **05**
- Q.4** (a) Describe the various methods for analyzing sugar and starch products. **06**
(b) Write short note on gel electrophoresis. Give its applications. **05**
(c) Explain gradient-centrifugation technique and their applications. **05**
- Q.5** (a) Explain techniques used to determine spices and herbs in food products. **06**
(b) Write note on immunoassays. **05**
(c) Explain mass spectroscopy and its applications in food analysis. **05**
- Q. 6** (a) Write short note on detection of microbial contaminants in food sample. **06**
(b) Explain Legislation for food. **05**
(c) Describe contaminants in food material and food additives. **05**
- Q.7** (a) Write analysis of chemical constituents, their characterization and significance of reducing sugars. **06**
(b) Explain detection of pesticides and insect infestation in food products. **05**
(c) Describe standards for food additives. **05**
