Seat No.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016 Subject Code:2160408 Date:13/05/20 Subject Name: Agriculture and Food Biotechnology Time: 10:30 AM to 01:00 PM Total Marks Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		Enrolment No	-
Q.1	(a) (b)	Write a note on agrobacterium mediated gene transfer. Define the term biofarming. How bioactive peptides are made using transgenic plants?	07 07
Q.2	(a) (b)	Discuss in detail about types, advantages and uses of biofertilizer. What are the applications of marine compounds for industry? OR	07 07
	(b)	Explain the concept of organic farming with suitable example.	07
Q.3	(a) (b)	Describe the biochemical changes cause by microorganisms in a food. Enlist and explain intrinsic and extrinsic parameters of food that affect microbial growth.	07 07
		OR	
Q.3	(a) (b)	Give a detail account on food poisoning. Explain the principal underlying the destruction of microorganism by irradiation.	07 07
Q.4	(a) (b)	Write about probiotics with suitable examples. Enlist various sampling techniques for food analysis. OR	07 07
Q.4	(a) (b)	Define and differentiate between food flavours, food additives and toxicants. What are different food processing methods and unit operations? Discuss it in detail.	07 07
Q.5	(a) (b)	What do you understand by food quality assurance and standards? Write a note on food borne intoxicants.	07 07
Q.5	(a) (b)	Describe various mode of food preservation. What are the functions of enzymes in food and food industries?	07 07
