GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

| Subject code: 170402Date: 31/12/2012Subject Name: Agricultural and Food BiotechnologyTotal Marks: 70Time: 10.30 am - 01.00 pmTotal Marks: 70Instructions:Total Marks: 701. Attempt any five questions.Yes of the suitable assumptions wherever necessary.3. Figures to the right indicate full marks.Yes of the suitable assumption wherever necessary. | | | |
|---|------------|--|----------|
| Q.1 | (a) | Comment on the basic principle and practice to cleaning and sanitation involved in food industry. | 07 |
| | (b) | • | 07 |
| Q.2 | (a) (b) | Explain the role of enzymes in foods and food industries. Explain the different methods of food analysis for determination of food composition. | 07 07 |
| | (b) | | 07 |
| Q.3 | (a) | Comment on the role of organic farming in the management of agricultural pollution. | 07 |
| | (b) | | 07 |
| Q.3 | (a) | Justify: Agricultural waste management is facilitated by Biogas technology. | 07 |
| | (b) | State the advantages and limitations of Biopestiscides. | 07 |
| Q.4 | (a) | Explain how genetic engineering of crop plant can be facilitated by <i>Agrobacterium</i> . | 07 |
| | (b) | | 07 |
| Q.4 | (a) | State the significance of engineering of crop plants for industrial traits. | 07 |
| Q.4 | (b) | | 07 |
| Q.5 | (a) | Comment on the biochemical changes caused by microorganisms in food products. | 07 |
| | (b) | Explain Bioprocessing of meat, vegetables and dairy products. | 07 |
| Q.5 | (a) | 1 1 0 | 07 |
| | (b) | Explain the methods for food preservation | 07 |
