(Following Paper ID and Roll No. to be filled in your Answer Book)														
PAPER	ID		154602	Roll No.										

B.Tech.

(SEM. VI) THEORY EXAMINATION 2013-14

FOOD BIOTECHNOLOGY

Time: 3 Hours Total Marks: 100

Note: All questions are compulsory. All questions carry equal marks.

- 1. Write short notes on any four:
 - (a) Prebiotics

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- (b) Distilled spirits
- (c) Radicidation
- (d) Processed Meat
- (e) Sea foods
- (f) Food and Drug Administration.
- 2. Attempt any four parts:
 - (a) Differentiate between Irradiation & Pasteurization.
 - (b) Give five examples of fermented foods and microorganisms for their production.
 - (c) Describe the production of single cell protein.
 - (d) Discuss rheological properties of food.
 - (e) Explain the basic principles involved in food processing methods.
 - (f) What should be the important characteristics of the microorganisms, if they are used in food fermentation?

3. Attempt any two parts:

- (a) Give a historical overview of food biotechnology.
- (b) Discuss the various safety challenges, emergence of new pathogens and food borne diseases in fermentation industry.
- (c) Explain the role of various unit operations involved in Food Processing.

4. Attempt any two parts:

- (a) Discuss the various process steps involved in Beer production.
- (b) Enlist various methods of food preservation. Explain any one in detail.
- (c) Briefly discuss various intrinsic and extrinsic factors of food that can affect microbial growth.

5. Attemt any two parts:

- (a) Why are food preservatives required? How are foods spoiled without preservation? How long can a food be preserved?
- (b) Discuss the role of Enzymes in "Food Processing".
- (c) List the various equipments involved in the commercially important Food Processing methods.