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Code: R7422302

IV B.Tech II Semester(R07) Regular Examinations, April 2011 FOOD SCIENCE & TECHNOLOGY

(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Explain the fundamentals and aims of food science and technology.
- 2. Give an account on:
 - (a) Physical and chemical properties of lipids.
 - (b) Water activity and shelf life.
- 3. Explain about types of microorganisms normally associated with food.
- 4. Give a brief note on physical, chemical and biological methods of preservations. , Oì
- 5. Give an account on:
 - (a) Enzymes used in food industry
 - (b) Mycoprotein production.
- 6. Explain about:
 - (a) Natural sweeteners
 - (b) Artificial sweeteners
- 7. Explain about the equipment involved in commercially important food processing methods.
- 8. Write a short note on:
 - (a) Importance and functions of quality control.
 - (b) HACCP.

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Answer any FIVE questions All questions carry equal marks

- 1. Give an account on:
 - (a) Nutritive value of foods
 - (b) Food as source of energy
- 2. Write an account on effects of processing on functional properties and nutritive value of foods.
- 3. Explain about the
 - (a) Biochemical changes caused by microorganisms
 - (b) Food poisoning.
- 4. Write a note on bioprocessing of meat and dairy products.
- 5. Explain the nature and type of starters and role of starter in fermented foods.
- 6. Write a short note on:
 - (a) Food flavours
 - (b) Toxicants
- 7. Write about the materials and containers used in food packing.
- 8. (a) What is quality control?
 - (b) How to evaluate the quality of food products?

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IV B.Tech II Semester(R07) Regular Examinations, April 2011 FOOD SCIENCE & TECHNOLOGY

(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Explain various biotechnological applications in food industry.
- 2. Explain how the vitamins and minerals are lost due to processing.
- 3. (a) What is spoilage of foods?
 - (b) Explain the food pathogens.
- 4. Explain irradiated foods and their advantages and disadvantages.
- 5. Give an account on:
 - (a) Fermented milk products
 - (b) Fermented soy and peanut milk.
- 6. Write a short note on:
 - (a) Neutraceuticals
 - (b) Functional foods
- NIX.C. 7. Give an account on commercially important food processing methods.
- 8. Write a brief note food regulations, grades and standards.

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IV B.Tech II Semester(R07) Regular Examinations, April 2011 FOOD SCIENCE & TECHNOLOGY

(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Explain the fundamentals and aims of food science and technology.
- 2. Write an account on single cell proteins.
- 3. Explain about the artificial preservatives used in fish and meat processing.
- 4. Give an account:
 - (a) Fermentation
 - (b) Cereal based beaverages
- 5. Discuss the role of "food additives" in controlling diseases and deficiencies.
- 6. Write a short note on:
 - (a) Artificial sweeteners
 - (b) Nutraceuticals
- 7. Write a brief note on irradiated foods and dairy products.
- 8. Write a short note on:
 - (a) Concept of codex almentaions
 - (b) USFDA