

St Aloysius College (Autonomous)
Mangaluru

Semester III – P.G. Examination – M.Sc. Food Science Nutrition and Dietetics
November / December - 2023
FOOD MICROBIOLOGY

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following:**(6x3=18)**

1. Write a note on secondary metabolites
2. Write a note on Catalase test
3. Write a note on Ropiness
4. PCR
5. Write a note on Fluorescent Antibodies
6. Indicator Microorganisms
7. ELISA

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II. Answer any FOUR of the following:**(4x7=28)**

8. Discuss food born diseases outbreaks with example
9. Discuss the microflora and criteria of Meat and its products.
10. Discuss the mircoflora of Milk and its products.
11. Explain food borne diseases, causative organisms and symptoms
12. Discuss immunological methods used to detect microorganism.

III. Answer any TWO of the following:**(2 x12=24)**

13. Discuss the usage of microorganisms used in food industries.
14. Describe the non-bacterial agents of food borne illness
15. What are food Hazards? Explain the seven principles of HACCP with a suitable flow diagram for a food business.

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NUTRACEUTICALS AND FUNCTIONAL FOODS IN HUMAN HEALTH

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following:

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(6x3=18)

1. Define functional foods. Give example
2. Differentiate between nutraceuticals and dietary supplements.
3. Write the structure of omega 3 and omega 6 fatty acids.
4. What are lycopene? Add a note on its role in preventing cancer.
5. Write a short note on obesity
6. Write a short note on FOSHU foods
7. List the dominant species of intestinal microflora

II. Answer any FOUR of the following:

(4x7=28)

8. Compare and contrast the health claims associated with nutraceuticals and pharmaceuticals. Explain the role of nutraceuticals in disease management
9. What are Gluco sinolates? Explain its health benefits.
10. Explain the pathophysiology of angiogenesis and role of nutraceuticals in prevention
11. Write a detailed note on oligo saccharids as prebiotics.
12. Explain the gut microbine disrupting factors in detail.

III. Answer any TWO of the following:

(2 x12=24)

13. What is Alzheimers disease? Discuss the role of functional food and nutraceuticals in management of Alzheimers disease
14. Discuss the different steps involved in the development of functional foods
15. Explain in detail
 - a) Interrelationship between nutraceuticals and nutrigenomics.
 - b) Role of dietary fibre in managing human health.
