

I S Sadan

Subject Title: Food &amp; Environmental Microbiology

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## Unit - I: Fermented Foods

Short Answer type Questions:

- 1 Fermented foods.
- 2 Health aspects of fermented food.
- 3 Fermented vegetables.
- 4 Sauerkraut.
- 5 Pickles.
- 6 Idly.
- 7 Dairy Products.
- 8 Microbial products of milk.
- 9 Cheese.
- 10 Microorganisms as food.
- 11 Probiotics.
- 12 Prebiotics.

Essay Answer type Questions:

- 13 Write an account on processing and fermentation of vegetables?
- 14 Give an account on dairy microbiology?
- 15 Give an account on microorganisms in milk and its significance?
- 16 Discuss in detail about microbial products of milk?
- 17 Give an account on probiotics and prebiotics?
- 18 Discuss in detail about fermented food and its health aspects?
- 19 What is cheese? Describe main steps involved in cheese production?
- 20 What is Single cell protein? Describe various microorganisms involved in the production of SCP?

## Unit - II: Microbial food spoilage and poisoning

Short Answer type Questions:

- 21 Food Poisoning.
- 22 Mycotoxins.
- 23 Food Preservation.
- 24 Food safety issues.
- 25 Quality control.
- 26 Spoilage Microorganisms.

Essay Answer type Questions:

- 27 Give an account on microbial spoilage of food?
- 28 Discuss in detail about microbial food poisoning? Add an account on its risk and hazards?
- 29 Write an account on food preservation?
- 30 Give an account on importance and functions of quality control of food?
- 31 Write an account on quality assessment of food?
- 32 Give an account on screening and enumeration of spoilage microorganisms?
- 33 Discuss in detail about detection of pathogens in food?

#### Unit - III: Air and Water Microbiology

Short Answer type Questions:

- 34 Air Microorganisms.
- 35 Water pollution.
- 36 Sanitary quality of water.
- 37 Anaerobic sewage treatment.
- 38 Chlorination.

Essay Answer type Questions:

- 39 What is sewage? Describe municipal treatment process of sewage treatment?
- 40 Give a brief account on microorganisms in air and their importance?
- 41 Write an account on water borne pathogenic microorganisms and their transmission?
- 42 Write an account on aerobic and anaerobic sewage treatment?

#### Unit - IV: Soil Microbiology

Short Answer type Questions:

- 43 Soil microorganisms.
- 44 Microbial and plants interactions.
- 45 Bioremediation.
- 46 Microbial degradation of organic pollutants.
- 47 Carbon Cycle.
- 48 Nitrogen cycle.

Essay Answer type Questions:

- 49 Give a brief description on properties of soil?
- 50 Give an account on methods of enumeration and activity of microbes in environment?
- 51 Write an account on different microbes and plant interactions?
- 52 Define Biodegradation? Describe the process of biodegradation of natural organic compounds?