

ASSIGNMENT SET - II

Department of Nutrition

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Mahavidyalaya



M.VOC(FTNM):

Semester-II

Paper Code:FTNM23

Answer all the questions

UNIT– 1:

1. Write down Current Status on Packaging Materials.
2. Write down testing of packaging materials.

Unit – 2:

1. Name and explain the different types of adhesives commonly used in food packaging.
2. b. Discuss the criteria for selecting an appropriate adhesive for specific food packaging applications.
3. Discuss the role of Importance of Graphics in Food Packaging:

Unit – 3:

1. Definition and Importance of Protective Packaging
2. Challenges in Packaging Foods Sensitive to Oxygen
3. Definition and Functions of Active Packaging
4. Issues Related to Canning and Canned Foods

Unit – 4:

1. Identify common packaging materials used for dairy products.

Unit – 5:

1. Challenges in Packaging Fats and Oils
2. Discuss packaging designs that enhance consumer convenience in using and storing spices.

Unit – 6:

1. Define Modified Atmosphere Packaging (MAP) and its purpose in the food industry.
2. Explain methods for monitoring and adjusting atmosphere conditions in CAP
3. Discuss the shrink film's properties and how it conforms to the product shape

Unit – 7:

1. Identify the materials commonly used in the manufacturing of retort pouches.
2. Identify materials suitable for microwavable packaging.
3. Types of Biodegradable Materials Used in Packaging
4. Identify materials and coatings used in the creation of edible packages.

Unit – 8:

1. Discuss how industrial packaging differs from consumer packaging.
2. Define unitizing and its purpose in industrial packaging.
3. Identify common types of containers used in industrial packaging.

Unit – 9:

1. What are the primary safety considerations when selecting packaging materials for food products?
2. b. How does the choice of packaging material impact the overall safety of the packaged food?
3. Name three factors that can influence the migration of toxins from packaging to food.

Unit –10:

1. Differentiate between Active and Intelligent Packaging
2. Identify two benefits and two challenges associated with the use of active packaging.
3. Name two emerging technologies in intelligent packaging.

Unit –11:

1. What is the primary purpose of oxygen scavenging technology in food packaging?
2. Why is carbon dioxide absorption important in certain food packaging applications?
3. Explain the function of ethanol emitters in food packaging.
4. Define antimicrobial food packaging and its main objective
5. Name two factors that can influence the effectiveness of antimicrobial packaging.

Unit -12:

1. What is the main purpose of Non-Migratory Bioactive Polymers (NMBP) in food packaging?
2. Explain how Inherently Bioactive Synthetic Polymers contribute to the preservation of food.
3. Explain how polymers with immobilized bioactive compounds enhance food safety.

Unit –13:

1. Define Time-Temperature Indicators (TTIs) and their role in the food industry.
2. Name two current Time-Temperature Indicator systems available in the market.
3. Classify TTIs based on their mechanism of operation.

Unit –14:

1. Define Packaging-Flavor Interactions and their significance in the food industry.
2. Explain the role of packaging in influencing the shelf life of food products.
3. Name two packaging materials commonly associated with flavor absorption.

Unit –15:

1. Define permeability in the context of polymer packaging materials.
2. Name two novel gases that have been explored for use in Modified Atmosphere Packaging.

Unit –16:

1. Define aseptic packaging and explain its significance in the food industry.
2. Explain the basic principles of an aseptic packaging system.
3. Define high-pressure processing (HPP) and its role in food preservation.

Unit –17:

1. Describe the key steps involved in the bottling process for beverages.
2. Explain how canning technology helps in extending the shelf life of various food products.
3. Outline the CAP process in the context of packaging technology.

Unit –18:

1. Discuss the importance of packaging standards in ensuring product safety and quality.
2. Outline the steps involved in the collection and separation of packaging materials for recycling.
3. Discuss the environmental impact of commonly used packaging materials such as plastics.

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