



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech.(Food Technology) 2021 Admission**  
**VI Semester Final Examination – June 2024**

Pafe.3232

**Food Packaging Technology and Equipment (2+1)**

**Marks: 50**  
**Time: 2 hours**

- I Fill in the blanks** **(10x1=10)**
1. Tetrapak has ..... layers.
  2. Filling of sterile containers with commercially sterile products is known as .....
  3. The first aseptic packaging of food was carried out in .....
  4. Muffins, butter, and many other food items are wrapped in ..... before packaging.
  5. Films containing BHT is an example of.....
- State True or False**
6. In Active Packaging, the atmosphere inside the package remains constant.
  7. UHT is used in Aseptic Packaging.
  8. Canning is also known as aseptic packaging.
  9. RFID is used for intelligent packaging in storage and distribution.
  10. Nylon is used in Tetrapak.
- II Write short notes on ANY FIVE of the following** **(5x2=10)**
1. What is the need of food packaging?
  2. Briefly explain the properties of ideal packaging material.
  3. What do you mean by aseptic packaging?
  4. What do you understand by vacuum packaging?
  5. What is WVTR, and Why is it important?
  6. Define active and intelligent packaging.
  7. Write the advantages of glass packaging.
- III Answer ANY FIVE of the following** **(5x4=20)**
1. What is the paper board? Explain different types of paper boards used in food packaging.
  2. Briefly discuss the principle of sterilization in aseptic processing.
  3. How are the pouches filled? Write the essential requirements for filling the pouches.
  4. Briefly explain the environmental factors that affect the shelf life of food materials.
  5. Briefly describe the purpose of labeling food material and the types of labels.
  6. Write about the advantages of plastic packaging.
  7. Briefly explain the desired properties of a good barrier material.
- IV Write an essay on ANY ONE of the following** **(1x10=10)**
1. What is burst strength? How does burst strength work, and how is it measured?
  2. What is permeability? List out the methods for measuring gas permeability and explain any two.

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