



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech.(Food Engineering) 2019 Admission**  
**VII Semester Final Examination – December 2022**

**Fdpr.4105**

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

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

- I Fill in the blanks** **(10x1=10)**
1. Filling the product in the can and processing and seaming it under sterile conditions is known as .....
  2. Both the ends of metal cans are curled which is called as .....
  3. Aluminium foil is a continuous web/sheet of aluminium metal rolled to thickness/gauges ranging from ..... mm.
  4. .... is the operation of reforming sheet metal without changing its thickness.
  5. The ..... is the available moisture for the growth of microorganisms.
  6. .... is the apex body of the packaging industry in India.
  7. .... is a translucent, machine finished paper which has been hydrated to give oil and grease resistance.
  8. Retort pouches are made up of .....
  9. The two major chemical changes that occur during the processing and storage of foods and lead to deterioration in sensory quality are lipid oxidation and .....
  10. EVOH stands for .....
- II Write short notes on ANY FIVE of the following** **(5x2=10)**
1. Write down the various levels of packaging.
  2. What is recyclability of packaging plastics? How recyclability of packaging plastics can be improved?
  3. Write the functions of food packaging.
  4. Write down the properties of LDPE packaging material.
  5. Write down the application of Plastics in food processing.
  6. What are the requirements of effective packaging materials?
  7. Write down the advantages of shrink packaging.
- III Answer ANY FIVE of the following** **(5x4=20)**
1. Explain retort pouch packaging technology in brief.
  2. What do you mean by lacquering? Explain different types of lacquers in brief.
  3. What do you mean by coating and laminating process in food packaging? Discuss various laminating process in brief.
  4. Write down the importance of biodegradable plastic used for food packaging industry. Explain starch based plastic in brief.
  5. What do you understand by pollution and environment problem in food industry? Describe various methods used to control solid waste disposal.
  6. Explain controlled atmosphere storage in brief along with its benefits and limitations.
  7. Explain various types of Aluminum package forms.
- IV Write an essay on ANY ONE of the following** **(1x10=10)**
1. Explain MAP technology in brief.
  2. Explain Tetra-pack aseptic packaging technology in brief.

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