

[This question paper contains 2 printed pages.]

**Sr. No. of Question Paper : 1496**

**F-7**

**Your Roll No.....**

Unique Paper Code : 2201702

Name of the Paper : Food Packaging Technology

Name of the Course : **B.Tech. Food Technology**

Semester : VII

Duration : 3 Hours

Maximum Marks : 75

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on the receipt of this question paper.
2. Attempt **five** questions.
3. **All** questions carry equal marks.
4. Question No. **1** is compulsory.

1. Write briefly about the following with example (**any ten**) : (1.5×10=15)

- (a) What is food packaging ?
- (b) HDPE can be used as packaging material for post-sterilization and not LDPE. Justify the statement.
- (c) Write significance of flute in corrugated fibre board.
- (d) Why is glass stiff and brittle ?
- (e) Tensile strength.
- (f) RFID.
- (g) Inert packaging.
- (h) Screen printing.
- (i) Vegetable parchment paper.
- (j) Role of O<sub>2</sub>, CO<sub>2</sub> and N<sub>2</sub> in MAP.
- (k) Edible coating.

*P.T.O.*

2. (a) Discuss the most suitable package design/system and material to package coffee powder to be sold in Chennai. (5)
- (b) Explain any two mechanical tests for evaluation of transport packages. (5)
- (c) What are packaging requirements for consumer goods ? (5)
3. Explain the following (**any five**) : (3×5=15)
- (a) Two piece can
- (b) Polyethylene
- (c) Labels
- (d) Printing ink
- (e) Blow molding process
- (f) Aseptic packaging
4. (a) Briefly discuss the DRD and DWI cans. (5)
- (b) How is water vapour permeability of packaging film determined ? (5)
- (c) Describe the process of tin plating. (5)
5. Describe the following (**any three**) : (5×3=15)
- (a) Packaging material for potato chips
- (b) Biodegradable packaging
- (c) Lacquers/varnishes
- (d) Recycled plastics
6. (a) As a manufacturer of dehydrated onion, design a packaging system and food label for the same to be sold in Indian market. (8)
- (b) Discuss the importance of Packaging design for physical representation of brand's value with example. (7)
7. Write a short note (**any three**) : (5×3=15)
- (a) Laminates
- (b) MAP
- (c) Plastic as packaging material
- (d) O<sub>2</sub> and CO<sub>2</sub> scavengers