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**53 (FPT 601) FPTC**

**2018**

**FOOD PACKAGING TECHNOLOGY**

Paper : FPT 601

Full Marks : 100

Time : Three hours

***The figures in the margin indicate full marks for the questions.***

***Answer any five questions out of seven.***

1. (a) Discuss the steps involved in the manufacturing of tin can. Give reasons for can corrosion. What type of lacquer should be used for canning of meat ?

8+2+2

- (b) How is the glass container manufactured ? Why is annealing done in manufacturing of glass container ?

7+1

*Contd.*

2. Write short notes on **any four** of the following : 5×4

- (a) Packaging film
- (b) Two piece can
- (c) Tin-free can
- (d) LDPE
- (e) Plasticizers.

3. (a) Define edible package and list the advantages of edible packages. List two products that are packaged using edible package. 2+4+2

(b) Discuss injection blow molding in the manufacture of plastic containers. 12

4. (a) Discuss four types of active packaging systems according to the functions they perform. In each type of active packaging system, give an example of the packaged product and agent used to perform the active function. 16

(b) Name the type of plastic used to make packaging material for the following products : 2+2

- (i) Bottled drinking water
- (ii) Refillable container for drinking water.

5. (a) Describe the aseptic packaging for perishable liquid foods. What are its merits and limitations? Give few examples of aseptically packaged food. 8+2+2+4

(b) Write the sterilization techniques used in aseptic packaged food. 4

6. (a) Describe the principle of Modified Atmosphere Packaging (MAP) and the Controlled Atmosphere Storage (CAS). 14

(b) What is Intelligent packaging? How does it improve the food qualities and their safety? 6

7. (a) Enlist the six layers of "tetra pack".  
Discuss the functions of each layer.

3+9

- (b) What do you know about Vacuum Packaging? Write few examples of food packaged by this technique.

3+5