Total No. of printed pages = 3 FPT-301/Intro to FPT/3rd Sem/2014/N

## INTRODUCTION TO FOOD PROCESSING TECHNOLOGY

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Answer any five questions.

1. (a)	Write the functions of	the	following
	vitamins : B1, B4, pantothenic acid, vitamin B-12.	folio	acid and 2×5=10

(b) What do you mean by food spoilage? 2

(c) What is hydrolytic rancidity ? 2

2. (a) Write one property each for starch and lipid.

(b) Describe the various factors responsible/ affecting the growth and activities of microorganisms. 12

[Turn over

- (a) Explain how spoilage occurs in bakery products. Name the micro-organisms responsible.
  - (b) Name three micro-organisms responsible for spoilage each in
    - (i) cereal grains,
    - (ii) vegetables, and
    - (iii) dairy products.  $3 \times 3 = 9$

3

- 4. (a) What are the functions of food packaging ?
  - (b) Write any six general requirements of an effective food packaging material. 3
  - (c) Write a note on the various hygienic aspects in food handling, storage and processing.
- 5. (a) What are the basic principles of food preservation ? / 4
  - (b) How does heat kills / destroys the microorganisms in food ? 2
  - (c) What are the primary aims of drying ? How is drying different from evaporation ? 2+1=3
  - (d) Describe the steps involved in in-pack sterilization of foods. 5

5/FPT-301/Intro to FPT (2)

6. Write notes on any four :

4×3.5=14

40(P)

- (a) Pasteurization
- (b) Preservation with salt and sugar
- (c) Preservation with the help of spices
- (d) Preservation with the help of preservatives
- (e) Fermentation
- (f) Functions of any three minerals in our body
- (g) Properties of enzymes.
- (a) Define radiation. Explain the various types of radiation treatment given to foods. 1+3=4
  - (b) What are the benefits of low temperature preservation ? 3
    - (c) What are the two types of low temperature processing and preservation methods ? Define them. 2
    - (d) Explain the three methods of freezing foods that are employed in commercial practice. 5

5/FPT-301/Intro to FPT (3)