FPT-301/IFPT/3rd Sem/2015/M

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) Describe the various factors effecting the growth and activities of micro-organisms.

9

(b) Explain how spoilage occurs in bakery products. Name two micro-organisms responsible for spoilage in bakery products.

3+2=5

- 2. (a) What do you understand by: 2+2=4
 - (i) Nutrition
 - (ii) Hydrolytic rancidity ?

(b)	Give two properties each for:	ovi laros
	Starch, Pectin, Lipids, Cellulose and	Proteins.
		5×2=10

- 3. (a) What are the basic principles of food preservation?
 - (b) Give the function of each of these minerals in our body:5Calcium, Zinc, Sodium, Iron, Magnesium.
 - (c) Write a note on pasteurization and its types.
- 4. (a) What are the various functions of food packaging?

figures in the marcin indicate his tracks

- (b) Describe the various types of packaging materials used for foods.
- 5. (a) Give the functions and sources of:

 Vitamin A, Vitamin B1, Vitamin B4,

 Vitamin D and Folic acid. 2×5=10
 - (b) Explain the mechanism of the action of enzymes with a suitable diagram. 4

W

- 6. Write notes on any four: $4\times3\frac{1}{2}=14$
 - (a) Three methods of freezing foods
 - (b) Preservation with the help of salt and sugar
 - (c) Properties of enzymes
 - (d) Types of foods based on perishability
 - (e) Fermentation
 - (f) Low temperature preservation.
- 7. (a) Describe the steps involved in in-pack sterilization of foods.
 - (b) Write notes on any two: $2\times4=8$
 - (i) Preservation with the help of spices
 - (ii) Preservation with the help of preservatives
 - (iii) Types of radiation treatment given to foods
 - (iv) Drying as a method of preservation
 - (v) Hygienic aspects in food handling, storage and processing.