## c. Degree examination - food chemistry & food processing Third semester - november 2013

## FP 3875 - FOOD PROCESSING TECHNOLOGY

Date: 14/11/2013 Time: 9:00 - 12:00	Dept. No.	Max.: 100 Marks
	PART – A Answer all the questions	(20 marks)
Choose the best answer:		$(5 \times 1 = 5 \text{ marks})$
(a) acetobacter (b) lactobaci ) Rotary Atomizer is present in (a) Solar drier (b) Microwave (c) Carmelization involves (a) bacteria (b) cooling process is facultatively Pediococcus (b) Leuconostoc  State whether the following a  Addition of class I preservative	flour (c) Semolina (d) MSG sed in the fermentation of cocoa allus (c) chlorella (d) yeast  Oven (c) Tunnel Drier (d) Spray D  s (c) addition of water (d) browning heterofermentative.  (c) Oenococcus (d) All the above are true or false, if false give reas es are restricted in food, and beans leads to hemolytic anemi removal of water	rier g of sugar on (5 x 1= 5 marks)
Retort pouches have good mo	oisture content	
Complete the following:	coside present in sorghum	(5 x 1 = 5 marks)
is a mechanical pro is the father of cann Kefir grains are live cultures of	cess where milk is forced through	a small passage at high velocity
Answer the following, each w		(5 x 1 = 5marks)
What is meant by senescence? List the enzymes used in tende Mention the uses of hops. What is the use of aluminum for Expand the following a) HEPA	erization of meat?	

## PART-B

 $(5\times8=40 \text{ mark})$ 

Answer the following questions, each in about 500 words only. Draw diagrams wherever necessary.

21(a) Explain the process of malting cereals grains

OR

- (b) What is Ohmic heating and enumerate its advantages?
- 22(a) Discuss the various hurdles used in food preservation.

OR

- (b) Give short answers for the following:
  - (i) Low acid foods with examples
  - (ii) Appertization
  - (iii) Convenience foods
  - (iv) Atmospheric storage of foods
- 23(a) Write a note on methods used for concentration of liquids.

OR

- (b) Explain the methods of dry heat sterilization
- 24(a) Give an account of enzymes used in fruit juice industry.

OR

- (b) Write a note on effect (i) Radurization (ii) Advantages and disadvantages of freezing
- 25(a) Describe the different products of wheat with its role in Indian cooking.

OR

(b) Enumerate the different factors affecting sterilization

## PART - C

Answer any TWO of the following questions, each in about 1500 words: Draw diagrams wherever necessary.

 $(2 \times 20 = 40 \text{ mar})$ 

- (26) Write elaborately on the Canning technology
- (27) Write notes on:
  - (i) Spoilage of food by microbes
  - (ii) Microbes and different factors influencing their growth
  - (iii) Moulding
  - (iv) Freeze drying
- (28) Give a detailed account on refining crude oil
- (29) Describe the process involved in milk processing operations with an illustration.

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