Total number of printed pages:4

D/3rd/DFET303

2021

FOOD PRODUCT TECHNOLOGY-I

Full Marks: 100

Time: Three hours

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

Answer any five questions

1. a.) Match the following with correct connections:		
1.) Hydrogenation	a.) Pulses	
2.) Parboiling	b.) Canning	
3.)Decortication	c.) Fat	
4.) Drying	d.) Rice	
5.) Flat sour	e.) Dehydration	
1 b.). Write True or False: i) Temperature effects the storage of fresh fruits and vegetables. ii) Hydrocooling uses air for cooling of foods. iii) Blanching is a mild heat treatment process. iv) Pasteurization inactivates enzymes to some extent. v) Hydrogen swells is a type of can spoilage.		
1(c). Fill in the blanks: i)Temperature used in drying step of malting is°C ii) Atomization of food particles is carryied out in drying.		
iii) During parboil iv)Wetting the storag maintain du	ing, of starch takes place. ge room floor is one of the method ring storage of fruits and vegetable ing out Blanching is about	

1(d). Choose the correct answer:

- i.) Removal of the brown colored layer from paddy is known as: Milling/Polishing/Aspiration/Dehusking
- ii.) The paddy in CFTRI parboiling is soaked for: 40 minutes/1 hour /3- 3.5 hours /20 minutes
- iii.) Moisture lost during vacuum cooling of foods is about: 1% /2-3% /3-5% / 6-8%
- iv.) Caustic peeling uses: Calcium Hydroxide/Potassium Hydroxide/Sodium Hydroxide/Hydrogen Peroxide
- v.) The kind of drying where solid foods remain suspended in air is:

Fluidized bed drier /Tunnel drier /Vacuum drier /Tray drier

a.) Define Blanching and explain any 1 type.

- b.) Mention the changes in the biochemical properties post parboiling of paddy.
 - c.) Write a small note on Food Preservation.d.) Describe any 2 types of cooling of foods.
- a.) Explain how temperature influences the storage of fresh fruits and vegetables.
- b.) State any 5 points of maintaining relative humidity during storage of fresh commodities.

 5X2= 10
- c.) Write 2 advantages and 2 disadvantages of parboiling of paddy.

4.)	a.) Describe any 3 types of spoilage that occurs in s.	canned 3X3=9
	b.) Describe any 2 methods of processing of pulse	s. 3+3=6
fats.	c.) Write a short note on Hydrogenation and Plasti	city of 5
5 a.) What are the objectives of Pasteurization and state it's various types (mentioning the Time-Temperatures used). 5		
	b.) What are the various objectives of Drying food	ls? 4
	c.) Explain any 2 methods of peeling of foods.	2x3=6
	d.) Describe any 2 types of mechanical driers.	5
6 milli	a.) Explain the steps of Pre-cleaning and dehuskining.	g in rice 3+3=6
	b.) Explain any 3 methods of cleaning of foods.	3X3=9
	c.) Describe the process of Malting.	5

7

- a.) Explain the effects of thermal processing on the quality of fruits and vegetable products.
- b.) Describe the steps in In-Pack Sterilization of Foods in Canning.
- c.) Write any 4 products of utilization of waste management. 4 X 2= 8

