53 (FPT 611) FPTC-IV

Write a n7102 the application of

FOOD PRODUCT TECHNOLOGY-IV

Paper: FPT 611

(Bakery, Confectionary and Extruded Products)

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) Expand and define FSSAI.
- (b) Define 'hardness' and 'pearling index' with respect to assessing the quality of wheat for bakery products. 2+2=4
- (c) Differentiate any three points in the standards of chocolate according to CODEX and FSSAI. 3×2=6
- (d) Write a note on the safety concerns for bakery and confectionary products with reference to microorganisms.

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2.	(a)				principle		
		extruder	with	a represe	entative dia	agra	ım.
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- (b) Write a note on the application of extrusion technologies in food processing.
- (c) What is the importance of pre-treatment in extrusion?
- 3. (a) Explain the various factors which affect the process of crystallization during confectionary making.
 - (b) Explain the types of confectionary moulders.
 - (c) Explain the effects of extrusion on the sensory and nutritional quality of foods.

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- 4. (a) How does a leavening agent work?

 Explain giving examples for both yeast and baking powder.

 5
- (b) Explain the structure and working of gluten in the formation of dough. 5

(c)	Explain	the	theory	and	working
	principle	of Ba		8	

- (d) Write any two health benefits of sprouted grains.
- 5. (a) Describe any two types of ovens used in bakery industries. 5

fair you tree ingredients and their hearthons

- (b) Describe any two types of mixers used in bakery industries. 5
- (c) Draw the flow diagram and explain the complete procedure of processing of cocoa beans into its various products.

6. (a) What does Falling Number test inform you?

(b) With respect to Alveograph, define P-value, L-value and W-value.

1+1+1=3

(c) What does the results of Mixograph help in determining? Define its Peak Time and Mixing Tolerance.

2+1+1=4

- (d) Write a note on Farinograph or Extensograph.
- 7. Write notes on : (any five) $4\times5=20$
- (a) Any five ingredients and their functions in bakery products.
 - (b) Rounders and Sheeters
 - (c) Production of Cornflakes
 - (d) Defects in bakery products
 - (e) Types of Baking powders
 - (f) Production of confectionary gum
 - (g) Types of extruders
- (h) Pie and Biscuit formers
 - (i) Bread Moulders
 - (j) RVA. Walana outlay-Jamesy-9