53 (FPT 302) PFPP

## 2018

## PRINCIPLE OF FOOD PROCESSING AND PRESERVATION

Paper: FPT 302

Full Marks: 100

Time: Three hours

The figures in the margin full marks for the questions indicate

Answer any five questions out of seven given.

- deterioration and spoilage of foods? What are the main causes of quality
- (6) classification. Classify foods Explain the according significance to their of this pH.
- (c) in preservation of foods Write process over other traditional processes the advantages of Irradiation

- 55.55 (d) be minimized? What are the blanching? How can these disadvantages disadvantages of
- 2. (a) Describe the role of microorganisms in preservation of foods.
- (6) Describe the effect of radiation on microorganisms and insects.
- 0 Explain the principle of hurdle technology as applied to foods
- ω. (a) importance of exhausting and cooling How do you prepare canned pineapple? steps would you use and why? Discuss the Explain the steps. What type of can 8+2+2
- (4) Define Fermented food. How do shelf Write advantages of fermented food. life of food increases by fermentation? 2+3+3
- 4. Write short notes on any four of the following
- (a) Preservatives
- (d) IQF

- (0) IMF
- (d) Drum dryer
- (e) Water activity.
- OI. (a) and salt. principle of food preservation by sugar Write detailed technical notes on
- (b) Define the term food additive. What with their uses in food industry. various classes of food additives along food additive ? Explain about the should be the characteristics of an ideal

(a) Define D-value and Z-value. How do you determine F-value in canning? What is 12D concept in canning?

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- (b) The F-value at 121·1°C equivalent to organisms. Calculate the Do-value of these 99% C. botulinum is 1.256 minutes inactivation of strain of Surveyor 3
- 0 Discuss in detail about pasteurization and sterilization of food.

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- (a) Preservation. Write the basic principles of Food
- 6 advantages of dried products. With the help of line diagram, explain the working of spray dryer. Also write

12+3