

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2020****Subject Code:3151407****Date:03/02/2021****Subject Name:Entrepreneurship and Food Plant Management****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define the terms: i) Lead time ii) Strategic decisions iii) Bills of material **03**
 (b) What are different ways for value addition in a commodity? How it promotes startup in food processing sector? **04**
 (c) What is 'Break Even Analysis'? Explain the components of Break Even Analysis. **07**

- Q.2** (a) Why business required working capital? **03**
 (b) Write a short note on 'Business Opportunity Identification' **04**
 (c) What is planned maintenance? Briefly explain the different types of planned maintenance. **07**

- Q.3** (a) List out the objectives of operation management. **03**
 (b) Differentiate between Batch production system and Process Production system. **04**
 (c) Discuss the factors influencing on the choice of a manufacturing system. **07**

- Q.4** (a) Briefly explain principles of Just in Time (JIT). **03**
 (b) Compare production planning and production control. **04**
 (c) Discuss independent material purchase process with recorder level, recorder quantity and safety stock relation. **07**

- Q.5** (a) Highlight on the salient features of Materials Requirement Planning. **03**
 (b) The company manufactures fruit cocktail for the constant demand of 1500 kg per month. Calculate the economic batch quantity if the annual holding cost is 10% of the stock value, unit price of the product Rs. 180 per kg and machine set up cost is Rs.3000/-. **04**
 (c) Discuss the functions of store department in a food industry. **07**

- Q.6** (a) Highlight on HML and VED analytical techniques of inventory management. **03**
 (b) XYZ company uses the following materials. Employ ABC analysis and categorize items with justification. **04**

Item No.	1	2	3	4	5	6	7	8	9	10
Unit Price (Rs.)	25	12	1500	75	50	100	500	900	10	5
Annual consumption	400	750	100	100	60	300	20	200	1500	400

- (c) Draw a schematic representation of conceptual model of production system and discuss its components. **07**

- Q.7** (a) Explain the term 'Contribution margin' **03**
 (b) Define the term depreciation and state the causes for depreciation. **04**

(c) Define Entrepreneurship. Describe the essential qualities of smart entrepreneur. **07**

- Q.8** (a) Differentiate between direct and indirect cost. **03**
(b) What is the need for maintenance of machines or equipment in the industry? **04**
(c) Discuss the challenges and constraints for food processing industry in India. **07**

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