

**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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