Seat No.: ____

Enrolment No.___

GUJARAT TECHNOLOGICAL UNIVERSITY

a 1	•	BE - SEMESTER–V(New) • EXAMINATION – WINTER 2016	2 016
Sub	ject	Code:2151407 Date:30/11/	2016
Sub	ject	Name:Entrepreneurship and Food Plant Management	
Tim	e:10	:30 AM to 01:00 PM Total Marl	ks: 70
Instr	uctio	ns:	
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
0.1		Answer the following question in brief.	14
L	1)	Elaborate NABARD.	
	2)	Define Break Even point.	
	3)	What do mean by variable cost?	
	4)	Enlist utilities required for food processing industry.	
	5)	What are the different stages of food processing industry?	
	6)	Highlight on depreciation calculation by straight line method	
	7)	Briefly write the role of SIDO agency in supporting of food industry	
	8)	Define productivity	
	9)	Idling of resources is considered as waste. Justify the statement	
	10)	Alteration adds a value to an entity Justify	
	11)	State the salient features of strategic decision	
	12)	What are the benefits of work measurement?	
	13)	What are advantages of large batch sizes?	
	14)	State the disadvantages of small batch sizes	
	14)	State the disad valuages of small batch sizes.	
0.2	(a)	Draw a schematic representation of Production conceptual model	03
~· -	(\mathbf{u})	Briefly explain the objectives of Operation Management	04
	(\mathbf{c})	Enlist the factors influencing choice of manufacturing system Explain any	07
	(0)	three in detail.	07
		OR	
	(c)	Enlist the different inventory management categorization techniques.	07
	(-)	Explain ABC analysis with suitable example.	
0.3	(a)	What is expected from a successful entrepreneur?	03
Z	(b)	Why fixed rate of depreciation is not considered in a food processing	04
		industry?	
	(c)	In a food processing industry, what are things included in:	07
		i) Working capital (ii) Current assets	
		OR	
0.3	(a)	How the agency SEEUY helps to food industries?	03
-	(b)	What are the precautions to be taken during teething stage?	04
	(c)	"Food processing Industry is Sun Rising industry in India." Justify the	07
		statement.	
Q.4	(a)	What are functions of ICICI?	03
	(b)	Enlist the characteristics of a smart entrepreneur.	04
	(c)	Calculate the breakeven point for the food factory with the following data:	07
		Capacity: 2 ton/hr; Production efficiency 87%; Working: 8h/day;	
		Maximum sale price Rs 92,000/- per ton; Fixed cost Rs 12,00,000/- per	
		year, Water and energy charges Rs 24000/- and Rs 36,000/- per working	
		day; Salary of permanent staff Rs 2,00,000/- per month; Maintenance	
		including miscellaneous expenditure Rs 3,00,000/- per year and Raw	

material cost Rs. 12,00,000/- per working day.

OR

- Q.4 (a) Briefly explain Materials Requirement Planning (MRP).
 - (b) Differentiate between tactical decision and operational decision.
 - (c) Calculate the cost of RO water per one liter bottle and 20 L jug (Returnable), if the plant produces 1.5KL water per hour. The cost of the plant is Rs 8,00,000/- Salvage value Rs zero after 25 years. The staffs employed are one manager at the rate of Rs 30,000 pm; two workers paid Rs 10,000/- pm per person and three workers are paid Rs 8,000/- pm per person. The plant works with 40 KW electric energy, required maintenance and insurance cost Rs 0.5% and 0.2% on initial cost of the plant per year. The interest on the average value is 10% and energy charges are Rs 6/ per unit. Other cost like postage and telephone is Rs 1,000/- pm and miscellaneous charge also Rs 1,000/- pm. The cost of plastic bottle of one liter capacity is Rs 1.50/- with cap. The plant is housed in rented building and paid Rs 6,000/- per month. Plant works 25 days in a month and 24 hours a day.

Q.5	(a)	What do you understand by production control?	03
	(b)	Company ABC manufactures mixed fruit jam for a stable market demand	04
		of 500 kg per month. The machine set up cost per batch is Rs. 4000/- and	
		stock holding cost is 10% of stock value per annum. If the cost of mixed	
		fruit jam per kg is Rs. 250/-, calculate EBQ (Economic Batch Quantity).	
	(c)	Discuss the functions of stores department in a food processing industry.	07
		OR	
Q.5	(a)	What are principles involved in JIT (Just in Time) concept?	03
	(b)	Highlight on the salient features of batch production system and process production system.	04
	(c)	Discuss independent demand purchase with recorder level and recorder quantity.	07

03

04

07