

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VII • EXAMINATION – SUMMER 2014**

**Subject Code: 171403**

**Date: 05-06-2014**

**Subject Name: Entrepreneurship and Food Plant Management**

**Time: 02:30 pm to 05:00 pm**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Write in brief.
- i. Aim of entrepreneur education
  - ii. Planning stage of enterprise
  - iii. Characteristics of successful entrepreneurs
  - iv. Different means of finance for an industry
  - v. Role of NSIC in establishing food processing industry
  - vi. Activities of NABARD
  - vii. Activities of SIDO
- 7x2=14
- Q.2 (a) Discuss various methods of calculating depreciation. What is the limitation and use of them with reference to food processing industry? 05+02
- (b) Explain the term Quality Management System? 03
- Discuss its importance with reference to the food processing industry? 04
- OR
- (b) Explain the term production planning with reference to specific food processing industry? 03
- Discuss the steps to be followed for implementation of ISO-9000 in the organization. 04
- Q.3 (a) Explain the scientific selection process of an employee in the organization? 07
- (b) i. What are the objectives of maintenance system? 03
- ii. Discuss different types of maintenance in brief? 04
- OR
- Q.3 (a) Discuss the role of Motivation and Performance appraisal evaluation on the performance of an industry? 07
- (b) i. Write a short note on 'soft skills requirement for an entrepreneurs'? 03
- ii. Explain the levels of hierarchy of Six Sigma team working on Six Sigma project in the organization? 04
- Q.4 (a) i. How JIT improves the business? 03

PTO

- ii. What are the different categories of workers required in the food processing industry? 04
- (b) What are the opportunities, challenges and constraints for food processing industry in India? 07

OR

- Q.4 (a) i. Write a note on ABC Analysis? 03
- ii. Discuss different Utilities required in the fruits and vegetable processing industry? 04
- Q.4 (b) Discuss the role of state level agencies help in promoting food processing industries? 07

- Q.5 Calculate the cost of operation of per pouch filling and sealing in an automatic pouch sealing machine Capacity 5000 pouches per hour throughout the year. Following information is available: 14

Initial cost of machine	Rs. 15,00,000/-
Salvage value	Rs. 1,00,000/-
Useful life	10 years
Prevailing interest rate	18 %
Rent of building	Rs. 2000/- pm
Cost of printed pouch	Rs. 2.70 per pouch
Electricity load	3 kW
Electricity rate	Rs. 6 per unit
No. of operator required	One per shift of 8 hours
Machine works	25 days per month
Insurance of Rs 10,00,000/-	0.1% per annum

What are the inferences you can work out from the analysis?

OR

- Q. 5 An industry wants to give its extruder for custom hiring in its first year at the rate of Rs. 600 per hour. Find the profit or loss percentage if following information is available to you. Do not make any assumption for your calculations. 14
- Initial cost of extruder Rs. 18,50,000/- ; Capacity of extruder 200 kg/h; Salvage value after 5 years Rs. 1,00,00/-; Electric consumption: 30kW; and unit charges are Rs 6 per unit; Fixed rate of interest 18% /year; Insurance 0.1% on Rs.20,00,000/-; Operator Rs.10,000/- pm for 8h a day, 300 days/year; Rent of building Rs. 2000/- pm
- Miscellaneous expenditure Rs. 500/-pm, The maintenance cost per year is 0.2% of initial cost.

-X-X-X-X-X-X-X