

2123

B. Voc. (Food Processing and Preservation)

Fifth Semester

FPP-505: Production Optimization and Cost Efficiency

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

X-X-X

I. Attempt any four of the following:-

- a) How do you currently measure and analyze the time required for changeovers?
- b) Discuss the role of technology in production performance.
- c) Briefly explain review of changes
- d) Explain Failure Mode and Effects Analysis.
- e) Explain Economic Order Quantity.
- f) Describe Purchasing Cycle.

(4x2)

UNIT - I

II. Describe in detail the methodology, an organization employs, for the analysis of equipment performance Include key performance indicators (KPIs) and metrics used, the frequency of analysis, and how the findings contribute to decision-making and continuous improvement.

(8)

III. Explore the various factors that significantly impact the performance of production within an organization. How do external factors, such as supply chain disruptions or regulatory changes, influence production outcomes?

(8)

UNIT - II

IV. What steps can a company take to optimize energy consumption in food production, and how will this contribute to cost savings?

(8)

V. Highlight some of the methods for promoting renewable and efficient resource and utilities management.

(8)

P.T.O.

(2)

UNIT - III

- VI. How are raw material sourcing, equipment utilization, workforce efficiency, and waste management integrated into a comprehensive strategy to enhance overall operational efficiency? (8)
- VII. Elaborate on the procedures and protocols in place for documenting changes in the production process. (8)

UNIT - IV

- VIII. Explain in detail the primary objectives of inventory management within any organization. How do these objectives align with the broader strategic goals, and what role does inventory management play in ensuring operational efficiency and customer satisfaction? (8)
- IX. How are purchasing needs identified, and what processes are put in place for supplier selection, negotiation, and final procurement? (8)

x-x-x