



End Term (Even) Semester Examination May-June 2025

Roll no.

Name of the Program and semester: B.Tech & (VI Semester)
Name of the Course: Industrial Engineering & Project Management
Course Code: TME 609
Time: 3 hour

Maximum Marks: 100

Note:

- (i) All the questions are compulsory.
- (ii) Answer any two sub questions from a, b and c in each main question.
- (iii) Total marks for each question is 20 (twenty).
- (iv) Each sub-question carries 10 marks.

- Q1. (2X10=20 Marks)
- a. Explain the importance of forecasting in Production Planning and Control. (CO 1)
 - b. Explain different types of facility layouts with neat diagrams. (CO 1)
 - c. Forecast future demand using least squares method: Year: 1, 2, 3, 4 | Demand: 200, 250, 300, 350. (CO 1)
- Q2. (2X10=20 Marks)
- a. What is codification? How does standardization help in inventory? (CO 2)
 - b. Explain \bar{X} and R charts with an example. (CO 2)
 - c. In an inspection, out of 1000 items, 50 are defective. Draw a p-chart. (CO 2)
- Q3. (2X10=20 Marks)
- a. List advantages of method study. (CO 3)
 - b. Describe the factors influencing plant location with examples. (CO 3)
 - c. Compare process, product, and fixed layouts. (CO 3)
- Q4. (2X10=20 Marks)
- a. What are the steps in feasibility study? (CO 4)
 - b. Explain cost of capital with a suitable example. (CO 4) & (CO 5)
 - c. A project has expected return ₹10L, cost ₹7L. What is ROI? (CO 4)
- Q5. (2X10=20 Marks)
- a. Define Project Management Information System (PMIS). (CO 5)
 - b. What are the phases of project audit? (CO 5) & (CO 6)
 - c. Explain Pareto analysis in project control. (CO 5) & (CO 6)