

Notes: Answer all questions of Part A in a place and answer five questions from Part B.

Please supply graph sheet/paper

PART-A (25 marks)

1. Define the term plant layout and state the types of layouts used in manufacturing industry.
2. What factors has been considered in deciding the organisation structure of a production industry?
3. Distinguish between flow process chart and a flow diagram.
4. State the Taylor's differential wage payment plan.
5. What do you understand by T.Q.M?
6. Given for a sample size of 5 the values of A_2 , D_3 , D_4 are 0.58, 0, 2.11, draw the \bar{X} chart of $\bar{X} = 7.85$ $\bar{R} = 2.51$.
7. State the applications of CPM and PERT.
8. State the objectives of Material Management.
9. Define the following Prime cost, factory cost, and Total cost?
10. What does the term Financial Leverage means?

PART-B (5x10=50 marks)

11. How is Business Organisation different from Organisation structure? State the different types of Organisation structures used in manufacturing industries and explain that structure applied in a medium scale industry.
12. a) Distinguish between Job evaluation and merit rating. Explain any one method of job evaluation.
b) Explain the term Performance Rating factor and Merit Rating.
13. a) How Inspection is different from quality control and state the objectives of ISO.
b) Explain the double sampling plan.
14. Distinguish between E.O.Q and E.B.S.
Determine the EOQ from the following data:
Monthly requirement = 60 units
Cost of placing 10 orders = Rs.400/-
Annual carrying cost/unit = Rs.4/-
Also derive the formula used, stating assumptions.
15. a) Sketch and explain the Break Even Chart. Derive an expression for B.E.P.
b) A electronic equipment was purchased for Rs.1,20,000/-. The residual value estimated at the end of its useful life of 10 years was Rs.24,000/-. Using Diminishing balance method calculate the followings:
1) The value of the equipment at the end of two (2) years
2) The depreciation fund collected at the end of two (2) years.
16. Distinguish between the following:
a) Type of Manufacture and type of production
b) Wages, Incentives and Bonus
c) Plant Location - Urban and Rural
17. Write notes on:
a) Rules of Motion economy
b) Types of on-costs
c) Cost of capital