

**DRONACHARYA COLLEGE OF ENGINEERING
GREATER NOIDA
INDUSTRIAL ENGINEERING & Management**

Unit 1

- Q1. What is the productivity? Describe various kinds of partial productivity measurements.
- Q2. What is production? Explain a production system with the help of an input –output model.
- Q3. Explain briefly the concept of work sampling with suitable example.
- Q4. Write a short notes on the followings
- a. Types of Production systems
 - b. Different approach to measure Productivity

Unit 2

- Q1. What do you understand by “plant layout” & explain principle & types of layout.
- Q2. Differentiate between “method study” & “work measurement”. State the objective of method study?
- Q3. Define “micro motion study” and explain.
- Q4. What do you understand by principle of motion economy and explain.
- Q5. Industrial Ownership

Unit 3

- 1 (a). State and briefly describe the dimensions of quality.
- (b). What are the costs of quality? Explain each component of cost of quality.
2. (A). Briefly explain about the sampling plans (types) and variables?
- (B). Describe how inventory is classified in a manufacturing organization.
- 3.(A) Explain the contribution of Taylor to management ABC company purchases 10,000 parts of a machine for its annual requirements, ordering one month usage at a time each part cost is rupees 30/- .the ordering cost per order is Rupees 20/- and the carrying charges are 20% of the average inventory per year
- 4.(a) Explain inventories ? what are the objectives of inventory control
- (B). What is TQM? Explain in details?

5.(a) Discuss on some principles of TQM gurus and Deming approach?

Unit 4

- 1) . Write short notes on
 - a. Statistical Quality control
 - b. What are the basic elements of reliability? Explain the importance of reliability?
- 2) Explain the concept of supply-chain. What is its scope?
- 3) How can the performance of supply-chain be measured?
- 4) what do you understand by production planning and control? Discuss its main elements of function?
- 5) Write notes on the following
 1. Routing
 - 2.Scheduling
 - 3.Dispatching
 - 4.Master schedule

Unit 5

- 1) State and briefly describe the dimensions of quality.
- 2) How can the performance of supply-chain be measured?
- 3) Discuss on some principles of TQM gurus and Deming approach?
- 4) A firm has a demand for a part at 40000 units per year. The cost per unit is Rupees 4 and its costs Rupees 72 to place an order and to process the delivery. The inventory carrying cost is estimated at a percent of average inventory investment .Determine
(1)EOQ? (2) Optimum number of orders to be placed per annum? (3) Minimum total cost of inventory per annum?
- 5) what do you understand by production planning and control? Discuss its main elements of function?
- 6) Write notes on the following
 - . Routing
 - 2.Scheduling
 - 3.Dispatching
 - 4.Master schedule