

PRODUCTION AND OPERATIONS MANAGEMENT

Time: 3 Hours

Max. Marks: 60

*Answer Any FIVE Questions
All Questions Carry Equal Marks
Question No. 8 is Compulsory*

1. a Explain in brief the objectives of production management.
b What is the role and responsibilities of the Production Manager?
2. a What is Production Planning and Control? Elaborate the stages in it.
b Describe the factors that should be taken into account in deciding the location of plant.
3. a Describe the stages involved in the implementation of a quality assurance programme in a large-scale Production Company.
b What is Inventory Control? Explain any four Inventory Control systems, you know.
4. a Define quality, and discuss the dimensions of quality.
b Explain about the techniques of new product development and design.
5. a Write about the scope and objectives of stores management.
b What is value analysis? explain the concepts and procedures associated with it.
6. a Distinguish between production management and operations management.
b Explain the different types of Automation tools.
7. a
 - i. Quality circles
 - ii. ISO 9000-2000
b
 - i. Juran's quality trilogy
 - ii. FNSD analysis

8. **Case study**

A firm's annual requirement of inventory is 28,000 units. The acquisition cost amount to Rs. 120 per order. The carrying costs are likely to be Rs. 1.40 per unit per year.

Assume the following orders sizes:

- a) 28,000 units
- b) 14,000 units
- c) 7,000 units
- d) 3,500 units
- e) 1,750 units
- f) 875 units

Determine:

- i) Order cost
- ii) Carrying cost
- iii) Average inventory
- iv) Economic order quantity