

No. of Printed Pages : 3

**MMPC-009**

**MANAGEMENT PROGRAMME (MP)**

**Term-End Examination**

**June, 2022**

**MMPC-009 : MANAGEMENT OF MACHINES AND  
MATERIALS**

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** (i) Answer any **five** questions.

(ii) All questions carry equal marks.

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1. “A clear line of demarcation between the products and services is much less apparent.”

Explain the differences between services and goods production.

2. What do you understand by mass production ?

Explain the advantages and disadvantages of mass production.

**P. T. O.**

3. What are the various forecasting methods to forecast long-term and medium-term demand ?
4. Explain the concept of waste management.  
“Waste management is complementary to resource management.” Comment.
5. “Value engineering is a powerful approach for improvement in the performance of the products, systems or procedures and reduction in costs without jeopardizing their function.” Explain the concept of value engineering. Also, state the difference between value engineering and cost reduction.
6. What do you understand by Flow Processing ?  
Explain the advantages and disadvantages of continuous form of processing.

7. Write short notes on any *three* of the following :

- (a) Product Design
- (b) Critical Path Method
- (c) Work Design
- (d) Benefits of Standardization
- (e) Materials Handling System

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1. "Product selection is an ongoing process in any organization." Define product selection. Also, explain the product selection process.
2. Define the terms Capacity and Capacity Planning. Explain in brief the process of capacity planning.
3. "A purchase requisition is the primary and authorization document describing the needed items." Explain, in view of the statement, the most common types of requisition forms.

4. Distinguish between mass and batch production. Under what conditions is batch production justified ?
  5. “Codification is a process of representing each item by a group of numbers and alphabets indicating the group, sub-group, the type and dimensions of the item.” Comment. Also, explain the objectives of codification.
  6. What do you understand by the term facility location ? When does a location decision arise ? Explain.
  7. Write short notes on any **three** of the following :
    - (a) Jobshop Production System
    - (b) Automation and Robotics
    - (c) Benefits of Value Engineering
    - (d) Wastivity and Productivity
    - (e) Vendor Evaluation and Rating
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1. Explain the meaning and objective of plant layout. Also, write the types of layout problems.
2. “Work measurement is concerned with the determination of the amount of time required to perform a unit of work.” Explain the procedure of work measurement. Explain any *two* techniques of work measurement in brief.
3. What do you understand by the term “Classification” ? Explain the concept of classification of materials on the basis of nature of material.

**P. T. O.**

4. Explain in brief the process of value engineering. Also, highlight its importance.
5. What are the common objectives of the purchasing function ? What are the activities in the purchasing function which require high consideration for legal aspects ?
6. What do you understand by batch production ? Explain the advantages and disadvantages of batch production.
7. Write short notes on any **three** of the following :
  - (a) Continuous Flour Process
  - (b) Features of Job Production
  - (c) Capacity Plans
  - (d) Programme Evaluation and Review Technique (PERT)
  - (e) Benefits of Mass Production

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**Note :** (i) *This question paper consists of seven questions.*

(ii) *Answer any **five** questions.*

(iii) *All questions carry equal marks.*

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1. “A strategic decision is one which has a long-term impact, influences a larger part of the system and ‘once implemented’ cannot be undone easily.” Explain such decisions, in brief.
2. What do you understand by mass production ? Explain the various advantages and disadvantages of mass production.

**P. T. O.**



3. Explain the concept of job design. Discuss the various technological factors for an effective job design.
4. Explain the concept of inventory. What are the various functions of inventory ?
5. “Basic foundation of value engineering is structured around the effective use of people in teams.” In view of statement, explain the meaning and behavioural and organisational of value engineering.
6. Enumerate the basic types of plant layouts. How does a cellular layout differ from a process layout ?
7. Write short notes on any *three* of the following :
  - (a) Locational break-even analysis
  - (b) Job production
  - (c) Work-study approach
  - (d) Inventory control of slow moving items
  - (e) Automation and Robotics

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1. What do you understand by intermittent flow process ? Explain its characteristics also.

**P. T. O.**

2. Define batch production. Also, write its advantages and disadvantages.
3. “Long-term and medium-term forecast of the demand of an output are made by using various casual forecasting methods.” Explain the various methods for predicting future capacity requirements.
4. What do you understand by the term codification ? Explain the various objectives of a codification system.
5. Discuss the complementary relationship of waste management and resource management.
6. Under what circumstances would you use PERT as opposed to CPM in project management ?

7. Write short notes on any *three* of the following :

- (a) Computerized Layout Planning
- (b) Time Management of the Project
- (c) Quality Management
- (d) Classification of Materials
- (e) Materials Management