

No. of Printed Pages : 3

**MS-05**

**MANAGEMENT PROGRAMME (MP)**

**Term-End Examination**

**June, 2025**

**MS-05 : MANAGEMENT OF MACHINES AND  
MATERIALS**

*Time : 3 Hours*

*Maximum Marks : 100*

*Weightage : 70%*

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**Note :** (i) Attempt any **four** questions.

(ii) All questions carry equal marks.

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1. What is a production system ? List some criteria that are used to measure the efficiency and effectiveness of a production system. Identify the major strategic and operational decisions in the life cycle of a production system.

2. (a) Enumerate the basic types of plant layouts. How does a cellular layout differ from a process layout ? Explain briefly.
- (b) “Product development and design is basically a research and development activity.” Elaborate the statement with suitable examples.
3. (a) Distinguish between mass and batch production. Under what conditions is batch production justified ?
- (b) Discuss the following factors for an effective job design :
  - (i) Organizational factors
  - (ii) Behavioural factors
4. (a) Define the concept of standard time. Explain clearly the steps involved in arriving at the standard time of an activity in a cyclic job.
- (b) Why are averages of samples used in control charts rather than individual readings ?

5. (a) What do you understand by 'Classification' ? What are the major objectives of classification ?
- (b) Design a suitable form to be used for preparing the comparative statements to enable the purchase manager to take decision about the best supplier out of a number of them.
6. Write short notes on any *four* of the following :
- (a) Economic Order Quantity (EOQ)
- (b) Parts Explosion
- (c) Zero Defect
- (d) Rotobics
- (e) Work sampling
- (f) Taxonomy of waste

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