

MANAGEMENT PROGRAMME (MP)

Term-End Examination

December, 2025

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

Time : 3 Hours

Maximum Marks : 100

Weightage : 70%

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

(ii) All questions carry equal marks.

1. Explain the framework of an operations system with the help of a neat diagram. Also discuss about the strategic decisions and short-term decisions of a production/operations system.
2. (a) Discuss with suitable examples the process of launching a new product in the market.

- (b) What are the different factors that should be considered for designing a facility layout ? Discuss with suitable examples.
3. (a) What is the distinctive feature of job shop production as compared to mass and batch production system ?
- (b) What do you understand by the term 'A socio-technical system' ? Can you give some socio-technical guidelines for job design ?
4. (a) Write an essay on how to organize a value analysis programme in a sick water-bottling plant.
- (b) Service organizations usually have to be provided with a higher capacity than the annual or monthly requirement. Why ? Explain with examples.
5. (a) What do you mean by 'Ergonomics' ? Discuss briefly design of a keyboard of a computer as related to it.

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- (b) What are the basic waste generation stages in a production system say a paper manufacturing unit ?
6. Write short notes on any *four* of the following :
- (a) Life-cycle of a production system
 - (b) Job Rotation
 - (c) Bill of Materials
 - (d) Project Crashing
 - (e) Exchange Curve
 - (f) Control Charts

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