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MS-05

MANAGEMENT PROGRAMME

(MP)

Term-End Examination

December, 2023

**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. (a) Discuss the different forms of transformation processes that may be adopted in a production system commenting on their production rate, flexibility and cost of installation and operation.
- (b) What are the steps in the design of a process layout ? On what criteria would you evaluate alternative layout designs ?

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2. (a) Why is it more difficult to increase productivity of a service system as compared to a production system ?
 - (b) Operations Management is essentially a function concerning planning, organizing and controlling of production/operations system for customer satisfaction at the lowest cost. Elucidate with examples.
3. (a) It may generally be said that Value Analysis leads to cost reduction. Can you give some specific benefits which may be expected when VA is effectively used within a manufacturing organisation ?
 - (b) What do you understand by capacity and capacity planning ? Differentiate between licenced capacity and rated capacity.
4. (a) Discuss the following factors for an effective job design :
 - (i) Technological factors
 - (ii) Environmental factors
 - (b) What is the fundamental difference between the use of acceptance sampling plans and process control charts ?

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5. (a) Differentiate between wastivity and productivity. Explain whether reducing wastivity and increasing productivity imply one and the same thing.
- (b) What do you understand by automated storage and retrieval ? For what kind of goods do you think such systems should be appropriate ?
6. Write short notes on any *four* of the following :
- (a) Value addition in production
 - (b) Learning curve
 - (c) Matrix organisation
 - (d) Control charts
 - (e) Signature analysis
 - (f) Taxonomy of waste