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**MS-05**

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**MANAGEMENT PROGRAMME (MP)**

**Term-End Examination**

**June, 2024**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** Attempt any 4 (four) questions. All questions carry equal marks.

1. (a) How do inflation, energy shortages and a shorter work week, each present new challenges to production / operations management ?  
(b) What are the major decisions in a life cycle of a production system ? Elaborate.
2. (a) What are the steps of a facility location study ? In case you want to locate a soft drink bottling plant, what factors would you consider relevant for taking a location decision ?  
(b) List the basic types of plant layout. How is the cellular layout different from the process layout ?

3. (a) Distinguish between mass production and batch production. Under what conditions is batch production justified ? Elaborate with suitable examples.  
(b) What do you understand by Method Study ? Explain the different stages of Method study.
4. (a) Critically examine the following statement :  
"Value Engineering is more of a human relations, team building and motivation programme than anything else."  
(b) What is the fundamental difference between the use of acceptance sampling plans and process control charts ?
5. (a) Briefly explain what do you understand by the term I.O.W. (Input-Output-Waste) model.  
(b) How does standardization help in variety reduction ? Elaborate your answer in context of a plastic container unit.
6. Write short notes on any 3 (three) of the following :
  - (a) Taxonomy of waste
  - (b) PERT
  - (c) O.C. curve
  - (d) Work Sampling
  - (e) Flexibility in manufacturing

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**P.T.O.**