

## MANAGEMENT PROGRAMME

### Term-End Examination

December, 2022

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

*Time : 3 hours*

*Maximum Marks : 100*

*(Weightage : 70%)*

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

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1. (a) Define Production Operations Management (POM) in your own words. Will your definition accommodate both manufacturing and service operations ?
- (b) Describe the Operations Management decisions and their classifications.
2. (a) Establishing a minimum capacity and managing with alternate sources like overtime, additional shifts and sub-contracting is always a low risk strategy. Comment.
- (b) Discuss different types of production systems. Suggest a suitable system for a watch manufacturing industry.

3. (a) Discuss the following factors for an effective job design :
- (i) Technological factors
  - (ii) Environmental factors
- (b) Write down the various process chart symbols neatly illustrated through which the recording of facts and activities are done in Method Study. Show an outline process chart of 'changing refill' of a ballpoint pen.
4. (a) Distinguish between mass production and batch production. Under what conditions are each of these productions justified ?
- (b) Explain briefly the role of Value Engineering in improving product design at reduced cost.
5. (a) Write down and explain the three broad areas of application of Quality Control.
- (b) Discuss the advantages and disadvantages of Codification and Standardization.

**6.** Write short notes on any *four* of the following :

- (a) Value Addition in Production
  - (b) Job Enrichment
  - (c) Group Technology
  - (d) Vendor Rating
  - (e) Project Crashing
  - (f) Failure Analysis
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