

MANAGEMENT PROGRAMME

Term-End Examination

June, 2022

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

Time : 3 hours

Maximum Marks : 100

(Weightage : 70%)

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

1. (a) What is the systems view of operations ? Describe the framework of planning, organizing and control decisions in a production system.
- (b) The concept of product and process life cycles has implications for technological changes, employee behaviour and organizational structure. Discuss these implications.
2. (a) What are the different factors that should be considered for designing a facility layout ? How would you design the layout for a small private hospital ?

- (b) Service organizations usually have to be provided with a higher capacity than the annual or monthly requirements. Why ?
3. (a) Each of us realises that environmental variables such as temperature and noise affect our work. What evidence can you cite that supports the impact, such environmental variables have on output ?
- (b) How is work study useful for management, employers, society and industrial productivity ?
4. (a) What are the four different types of value ? Explain each of these, citing suitable examples.
- (b) Under what circumstances would you use PERT as opposed to CPM in project management ?
5. (a) What is the fundamental difference between the use of acceptance sampling plans and process control charts ? Examine clearly.
- (b) What are the waste generation stages in a production system ? Explain the above in the context of a sugar producing industry.

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

- (a) Economic Order Quantity (EOQ)
 - (b) Bill of Materials
 - (c) Cellular Layout
 - (d) Operating Characteristic (OC) Curve
 - (e) Job Enlargement
 - (f) Flexibility in Manufacturing
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