

MANAGEMENT PROGRAMME

Term-End Examination

June, 2019

04792

MS-005 : MANAGEMENT OF MACHINES AND MATERIALS

Time : 3 hours

Maximum Marks : 100

(Weightage 70%)

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

1. (a) Explain the role of operations manager. Is the role of the operations manager different in product and service industries? If so, explain.
- (b) State the importance of materials management. How does material management affect the productivity of the system?
2. (a) Discuss the product selection stages in detail. How does product selection affect the strategic decision of the organization?
- (b) Discuss material handling systems. What factors are considered in the selection of the material handling system?

3. (a) What are the objectives of work design ? How does it help in the enhancement of productivity ?
(b) Describe the importance of ergonomics. How does ergonomics support job design ?
4. (a) What are the critical elements of mass production ? Why is mass production preferred for high volume and small variety ? Express your views with examples.
(b) Draw the bathtub curve with different stages of failure. What maintenance strategies would you select in different stages of failure ?
5. (a) What is value engineering ? How is value engineering useful in cost reduction and performance improvement ?
(b) Explain FAST diagram. What are the steps involved in the construction of FAST diagram ?
6. (a) Write the purpose of holding inventory. Discuss the importance of inventory management.
(b) What are the advantages and disadvantages of codification ? What are the essential requirements that the codification system should satisfy ?