

MANAGEMENT PROGRAMME

Term-End Examination

December, 2016

**MS-005 : MANAGEMENT OF MACHINES
AND MATERIALS**

Time : 3 hours

Maximum Marks : 100

(Weightage 70%)

Note : (i) *Answer any four questions.*

(ii) *All questions carry equal marks.*

1. (a) Describe the Operations Management decisions and their classifications.
(b) What do you mean by the term "Product Life Cycle" ? State the various stages of a product life cycle and also the factors affecting the cycle.
2. (a) What is plant layout ? Discuss the various objectives of a good plant layout and also its principles.
(b) Justify the statement : "Productivity is the economy of means".
3. (a) Describe the main phases of a Value Analysis exercise and also explain the purpose of each phase.
(b) What are the four different types of value ? Explain each of these citing suitable examples.

4. (a) Define Quality Control. Explain the importance of quality control in modern industries.
- (b) What are the control charts ? Briefly discuss various control charts.
5. (a) Discuss the objectives of maintenance management in industry. How does maintenance help to increase productivity ?
- (b) The estimated demand of Punam-Jyoti Industries for a material during next year is 2500 units. The ordering cost is ₹ 400 per order and the inventory carrying cost is ₹ 50 per unit per year. The safety stock is set at 25% of EOQ. The daily usage is 10 units and the lead time is 8 days. Determine.
- (i) The EOQ
- (ii) Safety stock
- (iii) Reorder point
6. (a) Discuss the advantages and disadvantages of codification and standardization.
- (b) Explain how would you proceed in designing a waste disposal system for a manufacturing enterprise.
-