

MANAGEMENT PROGRAMME

Term-End Examination

December, 2011

**MS-5 : MANAGEMENT OF MACHINES
AND MATERIALS**

Time : 3 hours

*Maximum Marks : 100
(Weightage 70%)*

Note : Answer Any 5 questions.

All questions carry equal marks.

Assume any missing data suitably.

1. (a) Discuss conceptual model of an operations system. Explain some of the performance objectives in operations management. **10**
- (b) Explain the frame work of organising and control in a production system. **10**
2. (a) What are different types of process forms in manufacturing system which are used to effect transformation of inputs into outputs ? Explain with examples. **10**
- (b) Choose a major facility of any organization (manufacturing) and develop a detailed layout for the same. **10**

3. (a) What are the different types of material handling equipment used in large industries ? What type of material handling system would you recommend for a cement plant. **10**
- (b) Discuss advantages and disadvantages of "codification and 'Standardization' of material." Use examples. **10**
4. (a) Discuss purchase procedure with the help of a schematic diagram. **10**
- (b) Explain common approaches for price determination. **10**
5. (a) Discuss systems of vendors evaluation and rating. Also give its importance. **10**
- (b) List different steps of value engineering approach, used as a product design tool. **10**
6. (a) Explain operating characteristic curve. With the help of the O.C curve explain simple sampling plan. **10**
- (b) Discuss objectives of maintenance management. List different types of maintenance systems prevalent in manufacturing organisations. **10**

7. . (a) List some of the major line Balancing methods. Explain any one of the method. 10
- (b) What do you understand by scheduling ? 10
Discuss various dispatching rules as used in Industry
8. Write short note on *any two* of the following : 10x2=20
- (a) Materials Requirement Planning
- (b) Economic order Quantity
- (c) Critical Path Method
- (d) Job Design
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