

MANAGEMENT PROGRAMME

Term-End Examination

December, 2012

03

MS-53 : PRODUCTION OPERATIONS
MANAGEMENT

Time : 3 hours

Maximum Marks : 100

(Weightage 70%)

Note : Attempt any four questions. Assume any missing data suitably. All questions carry equal marks.

1. (a) Define Operations Management. Identify its various components. Explain why operations management is multidisciplinary and how it becomes more effective ?
(b) Explain Quality Function Deployment (QFD) and how is this used by TQM Organizations ?
2. (a) Describe how leadership by top management is the driver of quality. Use appropriate examples relevant to industry in the context of either auto or IT industry.
(b) Define forecasting. Give utility of forecasts in production management. List down general steps in Forecasting Process and specify whether some are more relevant for long term forecasting.

3.
 - (a) What is process capability ? Explain process **capability studies as taken up in manufacturing organizations.**
 - (b) Explain importance of layout decisions and capacity decisions. Explain how capacity planning for a single-stage system is done ?

4.
 - (a) Explain with the help of appropriate chart the conventional method of developing process layout.
 - (b) Discuss Just in time manufacturing. Give its important components. Explain how waste is eliminated ?

5.
 - (a) Explain important elements of Materials Requirement Planning (MRP).
 - (b) Explain major characteristics of Total Productive Maintenance (TPM). Give benefits of TPM in manufacturing system.

6. Write short notes on *any four* of the following :
 - (a) Break Even Analysis.
 - (b) Flexible Manufacturing System.
 - (c) Kanban Systems.
 - (d) Time-series model of demand forecasting.
 - (e) Optimized Production Technology.
 - (f) Computer Aided Process Planning (CAPP).