

AU/IP/ME/TX/IEM - 601  
B.E. VI Semester  
Examination, December 2012  
Operation Management  
Time: Three Hours  
Maximum Marks : 100 Minimum Pass Marks :35

Note: Attempt five questions. All questions carry equal marks.

1. (a) What is the impact of Information Technology on operations management? 10  
(b) What is Little's Law? Explain its use with a suitable example? 10
2. (a) Analyse the porter's Five Forces model for developing operations strategy. 10  
(b) Explain the employment shift from manufacturing to the service industry in the Indian context. 10
3. (a) Define product Engineering and discuss stages of a product Life cycle.  
(b) What are the mass customizations? How does it differ from mass production?
- 4 (a) Define the following terms. 10
  - (i) Mean Time between failure
  - (ii) Maintainability
  - (iii) Mean Time to Failure
  - (iv) Availability  
(b) Analyse Bath Tub Curve.
5. (a) What are the factors of quality and how does these affect the quality? Explain with suitable example.  
(b) Analyse-Taguchi's Loss Function.
- 6.(a) Discuss the problems of inventories flow and operations in process Layout. 10  
(b) What do you understand by capacity? Analyse the need of capacity planning. 10
7. (a) Distinguish between aggregate planning and master scheduling. Identify the MPS Functions. 10  
(b) Discuss Linear Regression Analysis method of forecastings.
- 8 Write short note (Any - 4)  
(a) Cost of Quality (b) SWOT Analysis (c) Q.F.D. (d) Six Sigma (e) KANBAN & KAIZEN