

**COMMONWEALTH EXECUTIVE
MBA/MPA PROGRAMME**

Term-End Examination

December, 2007

C-4 : OPERATIONS MANAGEMENT

Time : 3 hours

Maximum Marks : 100

(Weightage 70%)

Note : Answer any **five** questions.

1. (a) Discuss the principle of Manufacturing Resource Planning with the help of block diagram.
(b) Explain the important elements of MRP. Compare MRP with JIT. *10+10=20*

2. (a) Enumerate your understanding about the evolution of manufacturing process technology.
(b) What are the six big losses related to equipment ? How can we eliminate these through maintenance activities ? *10+10=20*

3. (a) What is the role of computers in scheduling and sequencing of operations ?
(b) Explain the JIT manufacturing philosophy. *10+10=20*

4. (a) Elaborate your understanding about Production & Operations Management from systems viewpoint.

- (b) Explain the terms Productivity and Wastivity. How can productivity be improved ? $10+10=20$
5. (a) Explain the relationship between Work measurement and Job design. Which typically follows the other ? Why ?
- (b) Suppose you are considering expanding the local solid waste disposal system for a Municipal Corporation. Show what factors should be considered and how would you relate them to one another in your analysis. $10+10=20$
6. Write short notes on any **two** of the following : $2 \times 10 = 20$
- (i) Managing Information for Production Systems
 - (ii) ISO-9000
 - (iii) Selective Inventory Method
 - (iv) Delphi Technique
7. (a) What do you understand by Time Series Analysis ? Compare time series with other methods of forecasting.
- (b) What do you understand by Aggregate Planning ? Explain its inter-relationship with other decision areas like facilities planning and scheduling. $10+10=20$