August - September 2010

Master of Business Administration (MBA) Examination II Semester

Fundamentals of Operation Management

Time: 3 Hours] [Max. Marks: 80

Note: Attempt any Four questions from Section A. Section B is compulsory.

Section A

- (a) Differentiate between production and operation management.
 Discuss functions of productions operation manager.
 - (b) Define Productivity. Explain types of productivity with suitable examples.
- 2. Explain the following:
 - (a) Factor affecting productivity
 - (b) Methods for improving productivity
 - (c) Assemble to-order-strategy.
- (a) What do you understand by facilities planning? Discuss the process of technology selection.
 - (b) Explain Browns and Gibson Model.
- 4. Explain the following with suitable examples:
 - (a) Product Layout
 - (b) Load-distance matrix
 - (c) Material Handling.
- (a) Discuss resource requirement. Explain application of learning curve.
 - (b) What do you understand by production planning and control? Discuss material requirement planning.
- 6. Write short notes on any three of the following:
 - (a) Control charts and their applications
 - (b) Quality Circle
 - (c) BPR
 - (d) Theory of Constraints
 - (e) Centre of Gravity Model:

Section B

7.	Task	Immediate Task Time Predecessor	Task Time (minutes)
	а	<u>.</u>	.9
	d	a	.4
	С	b	.6
	d	C	.2
	е	С	.3
	f	d, e	.4
	g	f	.7
	h	g	1.1
		Total	4.6

Using the information in the above table:

- (a) Draw a precedence diagram.
- (b) Assuming that 55 minutes per hour per productive, compute the cycle time needed to obtain 50 units per hour.
- (c) Determine the minimum number of work stations.