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M.B.A.

Nov 2010

**204 : MANUFACTURING AND OPERATIONS MANAGEMENT  
(2008 Pattern) (Sem. - II)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt any five questions.
- 2) All questions carry equal marks.

**Q1)** The activities of a project and their time estimates in days are given below :

Activity	Estimated duration of Activities in days		
	Optimistic Time	Most Likely Time	Pessimistic Time
1-2	2	5	8
1-4	4	19	28
1-5	5	11	17
2-3	3	9	27
2-6	3	6	15
3-6	2	5	14
4-6	3	6	15
5-7	1	4	7
5-8	2	5	14
6-8	6	12	30
7-8	2	5	8

- a) Draw the network diagram and identify critical path.
- b) Calculate standard deviation of critical path.
- c) Calculate Early start and Early finish time for each activity.



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- Q2)** Which factors accounts for the resurgences of interest in Operation Management?
- Q3)** Give the examples and characteristics of various methods of manufacturing.
- Q4)** Discuss the strategic issues involved in single location and multi location decision for a manufacturing industry.
- Q5)** Write a short notes on (any two) of the following :
- a) Production control.
  - b) Theory of constraints.
  - c) KANBAN.
- Q6)** "Maintenance and production are two sides of same coin". Comment.
- Q7)** a) What are specification limits? Why do we need them in statistical process control?  
b) What do you mean by acceptance sampling?
- Q8)** Explain the concept of work study? Explain the process of method study with a illustration.

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