Name : ....

Reg. No: ....

EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, MAY 2012

ME 04 802 – OPERATIONS MANAGEMENT
(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

PART – A

I (a) Explain the minimax and Maximin criteria with respect to Decision making under uncertainty?

(b) Write a note on Decision Trees?

(c) Define EOQ? What are the methods used to determine EOQ?

(d) Write a note on materials requirement planning?

(e) What do you mean by Scheduling? State its importance in an organisation?

(f) Differentiate between job shop scheduling and Flow Shop Scheduling?

(g) Discuss the merits and demerits of process layout?

(h) Explain briefly, the process of Line Balancing?

$$(8 \times 5 = 40)$$

PART – B

II (a) What do you understand by crashing of a project network. Explain the guidelines for Network crashing?

(Or)

(b) Explain the process of Decision Making under uncertainty? Also describe the criteria for Decision Making under uncertainty?

III (a) Discuss the various Relevant costs in inventory control? Explain costs trade – off? How are the inventory costs influential in Inventory management?

(Or)

(b) Explain the concept of Inventory control? What are the various inventory models?

IV (a) Describe the process of production planning? What are the various steps in production planning? Also mention its benefits?

(Or)

(b) Compare moving average method and exponential smoothening method used for forecasting in terms of methodology. Advantages and disadvantages?

V (a) Explain the important factors that are to be considered while deciding the location for an organization?

(Or)

(b) What do you mean by Line Balancing? Explain the procedure involved in it? Also mention the importance of precedence diagram in Line Balancing?

$$(4 \times 15 = 60)$$

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