

C 44450

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Name.....

Reg. No.....



**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2013**

**ME/PTME 09 702—OPERATIONS MANAGEMENT
(2009 Scheme—Supplementary)**

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

- I. (a) What are the causal methods in forecasting ?
- (b) What is MRP ?
- (c) What type of layout is suitable for project systems ?
- (d) What is operations strategy ?
- (e) What is design-out maintenance ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

- II. (a) Briefly explain cost consideration in product design and development.
- (b) Briefly explain micromation study.
- (c) Distinguish between aggregate planning and master scheduling.
- (d) Describe the objectives of materials management.
- (e) Write a note on reasons for equipment replacement.
- (f) How can we find the optimum period for replacement.

(4 × 5 = 20 marks)

Part C

Answer all questions.

- III. (a) Explain productivity measurement and factors affecting productivity.

Or

- (b) Explain various qualitative methods of forecasting.

- IV. (a) Discuss the variables and objectives of aggregative planning process.

Or

- (b) What are the principles of material handling to be followed in industries ? Discuss.

Turn over

V. (a) What is inventory ? Define re-order point, lead time, minimum level, maximum level.

Or

(b) Describe the method of storage of inventory and procedure for receipt and issue of materials from stores.

VI. (a) A project consists of 12 activities and their time estimate are shown below :

Activity	1-2	1-3	1-4	1-7	2-4	2-6	2-7	3-4	4-5	5-6	3-7	6-7	
Time in weeks	t_o	4	3	5	2	6	3	5	3	2	1	2	1
	t_m	6	7	6	4	10	4	9	7	4	3	5	2
	t_p	10	12	9	6	20	7	15	12	5	6	8	6

(i) Draw the network diagram.

(ii) Determine the critical path.

(iii) Calculate the activity floats.

Or

(b) Explain the shortest route method with an example.

(4 × 10 = 40 marks)