

Code No. 5093

**FACULTY OF MANAGEMENT**  
**M.B.A. II – Semester Examination, July 2014****Course No. – 2.6**  
**Operations Management****Time : 3 Hours****Max. Marks: 80****Note : Answer All questions.****PART – A (10 x 2 = 20 Marks)**

1 Write short notes on the following:

- (a) Production control
- (b) Role of operations management
- (c) Aggregate planning
- (d) Objectives of plant layout
- (e) Quality assurance
- (f) Producer's risk
- (g) Right time of supply
- (h) Factors for evaluating the suppliers
- (i) Safety stock
- (j) Disadvantages of ABC analysis

**PART – B (5 x 12 = 60 Marks)****Answer all the questions using the internal choice.**

2 (a) Discuss the role of OM in the total management system with their interdependencies between other sub systems.

**OR**

(b) Describe the production methods and procedure for production systems bringing out clearly the differences in the case of : Job-shop system and batch production.

3 (a) Describe aggregate planning and scheduling. What are the methods available for line balancing ? Discuss their relative merits and demerits.

**OR**

(b) Discuss the objective and subjective factors, taken into consideration for plant location. How does it influence location of steel plants in India?

4 (a) Ten assemblies were inspected and the defects per assembly are shown below. Determine the control limits for the defects per assembly.

Sample Number	1	2	3	4	5	6	7	8	9	10
Defects	6	4	1	4	8	0	2	0	4	3

**OR**

(b) Five time studies have been made of an operation in mail order business. Those studies yielded the following elemental normal times in minutes per unit of output.

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Element	Study Number				
	1	2	3	4	5
A	0.126	0.090	0.124	0.127	0.129
B	4.235	4.401	3.192	4.313	4.250
C	0.864	0.888	0.875	1.267	0.892
D	1.498	1.503	1.526	1.511	1.492
E	0.737	0.417	0.419	0.424	0.421
F	0.064	0.059	0.060	0.062	0.066

With the use of these results, determine the total normal time for the job in terms of minutes per unit.

- 5 (a) What is meant by 'integrated materials management'? Develop a suitable organization structure to achieve the same. Discuss the MRP programme. Explain the concept of waste management.

**OR**

- (b) What are the various factors guiding the selection of the 'right source'? Discuss.

- 6 (a) Why is inventory required? Explain the various costs associated with the inventory with suitable examples. Explain EOQ models with and without shortages.

**OR**

- (b) Ten items used by a tiny sector unit are given below: Classify into A, B, and C class.

Price (Rs)	Annual usage (quantity nos.)
120.00	200
1080	100
0.60	2000
60.00	400
0.12	6000
2.40	1200
300.00	120
2.10	2000
3.00	1000
1200	80

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