

Code No. 2083

FACULTY OF MANAGEMENT

M.B.A. II-Semester Examination, July / August 2015

Subject : Operations Management Course No : 2.6

Time: 3 Hours Max. Marks: 80

Note: Answer ALL the questions.

Part – A (10x2=20 Marks) (Short Answer Type)

1 Write short notes on the following.

FirstRanker.com

- (a) What is process design?
- (b) What are the characteristics of batch production?
- (c) What is line balancing?
- (d) What is plant layout?
- (e) What is OC curve?
- (f) What are the managerial uses of Control Charts?
- (g) What is vendor analysis?
- (h) What is materials requisition?
- (i) What is VED analysis?
- (j) What are inventory costs?

Part – B (5x12=60 Marks) (Essay Answer Type)

2 (a) Define Operations Management and discuss its role in total management system.

OR

- (b) Explain the steps in production planning and control.
- 3 (a) What is plant location? Explain the factors influencing the choice of plant location.

OR

(b) Seven jobs are to be processed on two machines A and B in the order AB. Each machine can process only one job at a time. The processing times (in hours) are as follows:

Job	1	2	3	4	5	6	7
Machine A	10	12	13	7	14	5	16
Machine B	15	11	8	9	6	7	16

Suggest optimum sequence of processing the jobs and the total elapsed time. Also compute the idle time for both the machines.

4 (a) What is acceptance sampling? Explain its managerial uses in manufacturing organizations.

OR

(b) A plant produces newsprint and rolls of paper. The number of defects disclosed by the inspection of 20 rolls is as follows:

10, 6, 18, 5, 4, 9, 4, 1, 12, 15, 9, 11, 14, 20, 21, 10, 12, 5, 8, 10

Based on an appropriate control chart, establish control limits and comment whether the process is in a state of control.

..2



www.FirstRanker.com

www.FirstRanker.com

Code No. 2083

..2..

5 (a) What is prioritization of materials? Explain various techniques for prioritization of materials in a large size manufacturing organization.

OR

- (b) Explain the importance of make or buy decisions in manufacturing organizations. List out the implications under various circumstances.
- 6 (a) What is inventory control? Explain various inventory control techniques.

MWW.FirstRanker.com

ΛR

(b) Find the optimal order quantity for a product where the annual demand for the product is 500 units, the cost of storage per unit per year is 10% of the unit cost and ordering cost per order is Rs. 180.00. The unit costs are given below:

$1 \leq Q_1 \leq 500$	25.00		
$501 \leq Q_2 \leq 1500$	24.80		
$1501 \leq Q_3 \leq 3000$	24.60		
> 3001	24 00		

