(Please write your Exam Roll No.)

Exam Roll No. .....

Maximum Marks :75

Management

14

## **END TERM EXAMINATION**

FIFTH SEMESTER [BBA] DECEMBER-2012

Paper Code: BBA305 Subject: Production & Operations

## Time : 3 Hours

Note: Attempt any five questions. All questions carry15 marks each.

- Q1 (a) Differentiate between production and operations management.
  - (b) What is the transformation process? Explain the transformation process in a Bank and an automobile assembly plant.
- Q2 (a) List and explain the core concepts of TQM.
  - (b) Explain any two of the following:-
    - (i) Continuous Improvement
    - (ii) Zero defect
    - (iii) Design Quality
- Q3 Last week visual inspection carried out to find defectives in a manufactured term revealed the following data for a sample size of 30 numbers.

Sub group no.	No. of defectives	Sub group no.	No. of defectives	
1	5	11	5	
2	4	12	7	
3	4	13	4	
4	4	14	5	
5	7	15	4	
6	4	16	5	
7	5	17	5	
8	6	18	7	
9	4	19	6	
10	5	20	5	

This week 30 pieces were again inspected on each of two occasions and 6 pieces and 9 pieces were found to be defective in each case respectively. Determine whether the process is under control or not this week.

04

Two locations A and B are being examined for location of a new manufacturing plant. Two production processes X and Y are being examined. The annual operating costs for each process at two locations are as follows:-

Location	Process X		Process Y	
	Fixed cost (Rs. Lakhs)	Variable cost per unit (Rs.)	Fixed cost (Rs. Lakhs)	Variable cost per unit (Rs.)
А	15	5.9	34	3.8
В	12.5	6.4	30	4.1

In what range of outputs would each location process combination be preferred.

- Q5 Write short notes on **any two** of the following:-
  - (a) Advantages of product layout
  - (b) Assembly line balancing
  - (c) Service Facility Layout
- Q6 Compare and contrast fixed order quantity inventory system with fixed order period inventory system. Which system is more commonly followed and why?
- Q7 Explain of the following:-
  - (a) Economics of waiting line
  - (b) Waiting line Models

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