Maximum Marks: 100

Time: 3 hours

MASTER OF BUSINESS ADMINISTRATION (NETWORK INFRASTRUCTURE MANAGEMENT) (MBANIM)

Term-End Examination June, 2011

MCR - 005: OPERATIONS MANAGEMENT

Note		ttempt any five questions. All questions c arry eq arks.	— ual	
1.	(a)	Explain the concept of operations Management.	10	
	(b)	Explain the important issues in transformation. Take a Hotel. Explain the conversions taking place in line with a Hotel's objectives.	10	
2.	(a)	Explain the new product development process.		
	(b)	Explain the following terms. (i) Concurrent Engineering (ii) Design for Manufacturability, (iii) Reverse Engineering.	10	
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- (a) Compare product and process types of layouts giving examples of each type.
 - (b) What are the considerations to be kept in mind while locating a manufacturing facility for television?
- 4. (a) Discuss various types of service operations 10 giving example of each type.
 - (b) There are six jobs and two work centres. Each job has to go through WC-I and WC-II in that order the estimated processing times are as given below.

10

Job	WC-I (Hours)	WC-II (Hours)
Α _	1.5	0.5
В	4.00	1.00
C _	0.75	2.25
D	1.00	3.00
E	2.00	4.00
F	1.80	2.20

- (i) Find the sequence of operations as per Johnsons rule.
- (ii) What will be the time taken to process all Jobs?
- (iii) What will be the idle time on each machine?

5. (a) A path in a projects's PERT Network has **10** these activities time estimates in days.

activities	Optimistic	Pessimistic	Most likely
	Time to	Time (tp)	Time (tM)
a	8	13	11
b	10	14	12
k	15	17	15
I	13	20	15

Compute the mean path duration and the path variance.

- (b) Explain the difference between GNATT, 10 CPM and PERT.
- 6. (a) As purchase manager you have been asked to select suppliers for purchase of computers for your factory. What are the considerations you will keep in mind while selecting the supplier?
 - (b) Explain the following terms. 10
 - (i) MRP-I and MRP-II
 - (ii) LOT sizeing
 - (iii) ABC Analysis
 - (iv) Inventory Related Costs.

- 7. (a) In a manufacturing operation, the 10 percentage *defective* average 2.5% and sample size is 200.
 - (i) Compute the centre line for p chart.
 - (ii) Compute the 36 control limits for the chart.
 - (iii) Plot the recent data collected from daily sample and decide if the operation is in control. No. of defectives per sample: 2,9,7,5,0,3,8,7,2.
 - (b) Explain the concept of standardisation and **10** variety reduction with examples.
- **8.** (a) What is value Analysis? How is it different **10** from value Engineering?
 - (b) Explain Different types of maintenance in **10** a manufacturing organisation.