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Total No. of Questions : 11] [Total No. of Pages : 02

MBA/MBA (IB) (Sem. - 2nd)

PRODUCTIONS & OPERATIONS MANAGEMENT

SUBJECT CODE : MBA - 202 (2012 Batch)

Paper ID : [C0247]

Time : 03 Hours **Maximum Marks : 60**

Instruction to Candidates:

1) **Attempt any Four questions from Section - A. Each question carry 5 marks.**
2) **Attempt Four questions from Section - B, selecting one question from each Unit. Each question carry 8 marks.**
3) **Section - C consists of one case study of 8 marks.**

Section - A

Q1) Discuss the importance of Facility Location.

Q2) Explain the problems faced in Facility Layouts.

Q3) Discuss the technique of Multi–Sampling plans.

Q4) What do you understand by Kanban system?

Q5) Explain the Virtual Factory Concept.

Q6) Discuss the importance of Work Measurement.

Section - B

Unit-1

Q7) Discuss the various factors responsible for facility location. Give examples.

OR

Discuss the various production systems. Also explain product development.

Unit-2

Q8) Explain the different types of facility layouts. What are the various problems faced in facility layouts?

OR

Discuss the Objectives of Production Planning & Control. What are the various functions of P.P.C. Department?

Unit-3

Q9) Explain in detail tools and techniques for quality improvement. Also discuss Quality Assurance.

OR

Discuss the utility and effectiveness of acceptance sampling techniques. What are the different techniques?

Unit-4

Q10) Derive an expression for E.O.Q model of inventory management, with its assumptions. How does it help in maintaining optimum inventory?

OR

Write notes on the following

a) Value Analysis

b) Lean Production Systems

Section - C

Q11) (Case Analysis)

Sigma Instruments (P) Ltd is considering three locations for its new factory –Faridabad, Kolkota and New Delhi. The estimates of different costs for the three location options are shown in the following table.

	Faridabad	Kolkota	New Delhi
Transportation Costs (Rs. per unit)	1 0	20	9
Cost of Material (Rs. per unit)	120	110	100
Taxes(Rs per year)	40,000	35,000	45,000
Cost of Construction of the factory (Rs.)	5 million	4 million	4.7 million
Electricity	22,000	15,000	25,000
Labour (Rs. per unit)	26	21	23

The company has financed the construction cost of the factory by a loan from the State Bank of India at 15% interest per annum. As a Productions manager, advise the company on the economically best location option for the production of 5,000–10,000 units.

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