Roll No. | | | | | | | | | | | | |

Total No. of Pages: 02
Total No. of Questions: 10

M.B.A. (Sem.-2nd)

PRODCTION AND OPERATION MANAGEMENT

Subject Code: MBA-202

Paper ID: [C0247]

Time: 3 Hrs. **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATE:

1. ***Attempt any four question from Section-A.***
2. ***Attempt any one question of each unit I, II, III, IV from Section-B.***
3. ***Section-C is compulsory.***

SECTION–A

(4x5=20)

Q.1. a) Discuss the importance of facility location.

b) Explain the capacity planning process.

c) Discuss the technique of Multi-Sampling plans.

d) What do you understand by Lean Production systems?

e) Explain the Virtual Factory Concept.

f) Discuss the important of method study.

SECTION-B

UNIT-I

(4x8=32)

Q.2. Discuss the various factors responsible for facility location. Give examples.

Q.3. Discuss the characteristics of product design and development. What are the various techniques of product development?

UNIT-II

Q.4. Explain the different types of facility layouts. What are the various problems faced in facility layouts?

Q.5. Write notes on the following:

i) Capacity Planning decisions

ii) Work Measurement.

UNIT-III

Q.6. Explain in detail tools and techniques for quality improvement. Also discuss Quality Assurance.

Q.7. Discuss the utility and application of Six-sigma technique. What are statistical process charts?

UNIT-IV

Q.8. Derive an expression for E.O.Q. model of inventory management, with its assumption, how does it helps in maintaining optimum inventory?

Q.9. Write notes on the following

1. J.I.T
2. Stock Control Systems.

SECTION-C
Case Analysis

(1x8=8)

Q.10. Sigma instruments (P) Ltd is considering three locations for its new factor-Faridabad, Kolkata and New Delhi. The estimate of different costs for the three location options are shown in the following table.

	Faridabad	*Kolkata*	*New Delhi*
Transportation costs (Rs per unit)	10	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 state bank of India at 15% interest per annum. As a production manager, advise the company on the economically best location option for the production of 5,000-10,000 units.

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