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MBA
(SEM IV) THEORY EXAMINATION 2024-25
MANAGEMENT OF MANUFACTURING SYSTEM

TIME: 3 HRS

M.MARKS: 100

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

Q no.	Question
a.	Define Job Shop manufacturing system.
b.	State any two strategic benefits of a good plant layout.
c.	Mention two advantages of using bar code technology.
d.	Define Just-In-Time (JIT).
e.	What is sustainable manufacturing?
f.	Differentiate between installed capacity and utilized capacity.
g.	State any two factors affecting productivity.
h.	What is process planning?
i.	What is economic service life?
j.	State any two objectives of maintenance planning.

SECTION B

2. Attempt any three of the following: 10 x 3 = 30

Q no.	Question
a.	Explain the different types of manufacturing systems with suitable examples.
b.	Discuss the components and significance of Production Planning and Control (PPC) systems in manufacturing.
c.	Explain the role of lean techniques and continuous process improvement in enhancing manufacturing efficiency.
d.	Describe the various types of capacity and explain capacity expansion strategies in detail.
e.	Discuss the economic aspects of maintenance. How is replacement analysis done using specific time periods?

SECTION C

3. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question
a.	Compare Production and Productivity. How are they measured in a manufacturing setup?
b.	Describe the strategic importance of plant location and layout.

4. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question
a.	Explain Aggregate Planning and Master Production Schedule with examples.
b.	What is Material Requirement Planning (MRP)? Describe its role in manufacturing.



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5. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question
a.	Analyze the relationship between manufacturing cost and customer satisfaction.
b.	What is ERP? Discuss its significance in modern manufacturing systems.

6. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question
a.	Explain the factors influencing capacity planning.
b.	Evaluate the role of productivity in capacity management.

7. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question
a.	Describe various maintenance strategies. How do they impact system performance?
b.	What is spares management? Discuss its relevance to maintenance systems.

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