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MBA**(SEM IV) THEORY EXAMINATION 2023-24**
MANAGEMENT OF MANUFACTURING SYSTEM**TIME: 3 HRS****M.MARKS: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

a.	What is the difference between Efficiency and Effectiveness?	02
b.	Define Socioeconomic Development.	02
c.	What is meant by Computer-Aided Process Planning?	02
d.	What is Bar Code Technology?	02
e.	List the key criteria for Evaluating a Good Plant Layout	02
f.	Mention Assembly Line Balancing.	02
g.	Define Capacity Expansion.	02
h.	Give the differences between Productivity and Capacity.	02
i.	What is Maintenance Economics?	02
j.	Write the importance of Maintenance Records.	02

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

a.	Define a manufacturing system and its components. Discuss the role of manufacturing systems in producing goods.	10
b.	Describe process planning and its significance in manufacturing. Also discuss the objectives of process planning.	10
c.	What are the primary factors that influence the selection of a plant location? Describe the factor rating method and its use in plant location decision-making.	10
d.	Describe designed capacity, installed capacity, commissioned capacity, and utilized capacity. Explain each concept and their relevance in capacity planning.	10
e.	What are the main maintenance strategies used in manufacturing and service industries? Explain.	10

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

a.	Why is plant location important for manufacturing firms? Discuss.	10
b.	Describe the different types of manufacturing system.	10

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

a.	Explain the concept of master production schedule (MPS) and its relationship to aggregate planning.	10
b.	What is shop floor control, and why is it important in manufacturing? Also describe Automatic Identification and Data Capture (AIDC).	10

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

a.	Describe a process layout and its typical application. What are the main challenges associated with managing a process layout?	10
b.	Discuss the role of computer-based solutions in facility layout planning. Provide examples of software tools used for facility layout planning and their key features.	10



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6. Attempt any *one* part of the following:

$$1 \times 10 = 10$$

a.	Identify and explain factors that influence productivity and capacity in manufacturing. What are capacity expansion strategies?	10
b.	Describe the process of capacity planning analysis.	10

7. Attempt any *one* part of the following:

$$1 \times 10 = 10$$

a.	Explain the different replacement strategies used for equipment and machinery.	10
b.	Write short notes on the followings – (i) Replacement Analysis (ii) Spares Management	10