PAPER ID-410533

Subject Code: KMBNOM05

Roll No: | | | | | | | | | | | | | |

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.	Define Flexible Manufacturing Systems	02
b.	What is Project Shop Manufacturing?	02
c.	Mention Bar Code Technology.	02
d.	What is meant by Shop Floor Control?	02
e.	What is Just-in-Time (JIT),	02
f.	Define Enterprise Resource Planning (ERP)	02
g.	What are Workforce Skill Levels?	02
h.	What is Productivity?	02
i.	Define Spares Management.	02
j.	Mention Opportunity Cost.	02

SECTION B

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

a.	Define a manufacturing system and its components. Explain how manufacturing drives technological advancements	10
b.	What is CAPP, and how does it differ from traditional process planning methods? Discuss the advantages of using computer-aided tools in process planning.	10
c.	Describe the key components of the value chain. How does manufacturing cost impact customer satisfaction?	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.	Discuss how production refers to the creation of goods, while productivity measures efficiency in resource utilization.	10
b.	Why is plant location important for manufacturing firms? Explain concepts such as process layout, product layout, and cellular layout.	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 AIDC, and how is it used in manufacturing? Discuss the various technologies and methods used for automatic identification and data capture.	10

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

a.	Evaluate the effective use of lean techniques. What are lean techniques?	10
b.	Discuss the adoption of continuous process improvement and why it is important in manufacturing.	10

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

a.	Describe the process of capacity planning analysis.	10
b.	What are capacity expansion strategies, and when are they necessary? Discuss various strategies.	10

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

a.	What is maintenance economics, and why is it significant in maintenance management? Explain how quantitative analysis is used to optimize maintenance decisions.	10
b.	Why is it important to maintain accurate maintenance records? Discuss the types of information typically recorded.	10