Registration No.: | | | | | | | | | | |

Total Number of Pages: 02 **Course: MBA**

Sub_Code: 18MBA401D

4th Semester Regular/Back Examination: 2024-25
SUBJECT: MANAGEMENT OF MANUFACTURING SYSTEM
BRANCH(S): BA, FM, FM&HRM, GM, HRM, IB, MBA, MM
Time: 3 Hours
Max Marks: 100
Q.Code: S055

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.
The figures in the right hand margin indicate marks.

Part-I

Q1 **Answer the following questions:** **(2 x 10)**

a) How production is different from manufacturing.
b) Differentiate between pull and push concept of Kanban.
c) State the advantages of cellular manufacturing.
d) Outline the benefits of flexible manufacturing system.
e) State the prime rationale behind manufacturing process planning.
f) Outline the basic concept of Kanban system.
g) Differentiate between process layout and product layout.
h) What is production flow analysis?
i) Define CONWIP.
j) What purpose Gantt chart solves?

Part-II

Q2 **Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)** **(6 x 8)**

a) Describe the conceptual framework of Flexible Manufacturing System.
b) Explain the various tools and techniques used for layout planning and analysis.
c) State the qualitative analysis in cellular manufacturing.
d) Explain the basic principles of JIT, highlighting the elements of JIT.
e) Enumerate the types of Kanban system.
f) State the design and improvement aspects of JIT.
g) Briefly explain the concept of “control based on theory of constraints”.
h) How can minimization of inter-cell movement be achieved in a cellular manufacturing system?
i) Explain the process mapping in work environment.
j) Outline the constraints in manufacturing system.
k) Explain the DBR Methodology.
l) State the requirements for a smooth operation planning.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four) **(16 x 2)**

Q3	Enumerate the scope for FMS in the world of manufacturing today? State the Types and composition.	**(16)**
Q4	"Good plant layout not only optimizes the space utilization but reduces material handling cost ". Elaborate the statement explaining essential of good plant layout and factors which are needed to be considered while adopting a particular type of layout.	**(16)**
Q5	Outline the key principles in scheduling. Explain the scheduling procedure and the Factors affecting scheduling.	**(16)**
Q6	Define process mapping. What are the generic building blocks of process mapping? With a flow chart explain process mapping in work environment.	**(16)**