PAPER ID-310384

Subject Code: KMBNOM02

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

MBA

(SEM III) THEORY EXAMINATION 2024-25

OPERATIONS PLANNING & CONTROL

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	CO	Level
a.	Write roles of PPC Manager.	1	K1
b.	Why Forecasting Is Needed in Manufacturing sector?	1	K1
c.	Write the Difference Between Job and Batch Production.	2	K2
d.	What is Routing?	2	K2
e.	Define MRP-I.	3	K3
f.	Briefly explain Capacity Planning.	3	K3
g.	Write Advantages of 2 bin System.	4	K4
h.	What is Over Production Waste.?	4	K4
i.	Explain Control rooms.	5	K5
j.	Explain Role of feedback in Control System	5	K5

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 20**

Q no.	Question	CO	Level
a.	Explain the importance of Production Planning and Control (PPC) in a manufacturing sector.	1	K1
b.	List the Factors influencing plant capacity. Enumerate four Strategies for capacity planning.	2	K2
c.	Table shows the time remaining (number of days until due date) and the work remaining (number of day's work) for 5 jobs which were assigned the letters A to E as they arrived to the shop. Sequence these jobs by priority rules viz., (a) (First come first served) FCFS, (b) (Early due date job first) EDD, (c) (Least slack) LS, (d) (Shortest Processing Time job first) SPT and (e) (Longest Processing time job first) LP	3	K3
d.	What is waste management? Enumerate key benefits which can be derived from effective waste management.		K4
e.	Discuss strategies for corrective actions.		K5

JOB	Number of days until due date	Number of day's work remaining
A	9	6
B	4	7
C	5	5
D	3	2
E	6	8

SECTION C

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

Q no.	Question	CO	Level

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a.	Forecasting is essential for effective production planning. Compare and contrast qualitative and quantitative forecasting techniques, highlighting their respective advantages and limitations. Provide examples of scenarios where each technique would be most appropriately applied within a manufacturing context.	1	K1
b.	In the realm of Production Planning and Control (PPC), the PPC manager plays a pivotal role in ensuring seamless manufacturing operations. Critically analyze the key functions, roles, and responsibilities of a PPC manager, emphasizing how they contribute to achieving organizational objectives.	1	K1

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

Q no.	Question	CO	Level
a.	Describe the key characteristics of Job, batch, mass (assembly), and continuous production systems. How does Production Planning and Control (PPC) differ when applied to each of these production systems?	2	K2
b.	Define capacity planning. Explain need and classification of capacity Planning	2	K2

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

Q no.	Question	CO	Level
a.	Material Requirements Planning (MRP) and Manufacturing Resource Planning (MRP II) are essential tools in production management. Explain the key differences between MRP and MRP II, focusing on their scope, functionalities, and integration capabilities.	3	K3
b.	Discuss in detail Master production Schedule.	3	K3

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

Q no.	Question	CO	Level
a.	Describe the types of waste. What are 5S techniques of eliminating waste?	4	K4
b.	Discuss in detail lean process to minimize Wastes with suitable examples.	4	K4

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

Q no.	Question	CO	Level
a.	Explain how Gantt Charts and Bar Charts are employed in production control systems to plan and track production schedules. Provide examples to illustrate how these tools contribute to overall production efficiency.	5	K5
b.	Discuss the role of control rooms in production plants, emphasizing how system feedback mechanisms are utilized to monitor production progress and performance.	5	K5