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MBA
(SEM III) THEORY EXAMINATION 2023-24
OPERATIONS PLANNING & CONTROL

TIME: 3HRS

M.MARKS: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

Q no.	Question	Marks	CO
a.	Define Productivity.	2	1
b.	What is Planning ?	2	2
c.	State any two responsibility of a Production Manager.	2	2
d.	What is the need for forecasting ?	2	3
e.	What do you understand by under capacity utilization ?	2	2
f.	What do you understand by assembly line ?	2	3
g.	Define the term 'batch '	2	1
h.	What is MRP - I	2	1
i.	What do you understand by recycle of waste ?	2	4
j.	What do you understand by system feedback ?	2	4

SECTION B

2. Attempt any three of the following:

Q no.	Question	Marks	CO																								
a.	What are the various objectives of Production planning ? Explain the role and responsibilities of PPC manager.	10	2																								
b.	What is forecasting ? Briefly explain any two methods used in Quantitative forecasting.	10	2																								
c.	What is the importance of capacity planning in operation planning ? Explain types of capacity planning.	10	3																								
d.	A company manufactures two products A and B. A forecast of the units to be sold in the first seven month of the year is given below : <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Month</th> <th>Jan</th> <th>Feb</th> <th>Mar</th> <th>Apr</th> <th>May</th> <th>June</th> <th>July</th> </tr> </thead> <tbody> <tr> <td>Product A</td> <td>1000</td> <td>1200</td> <td>1600</td> <td>2000</td> <td>2400</td> <td>2400</td> <td>2000</td> </tr> <tr> <td>Product B</td> <td>2800</td> <td>2800</td> <td>2400</td> <td>2000</td> <td>1600</td> <td>1600</td> <td>1800</td> </tr> </tbody> </table> Prepare the production schedule for each month for the 6 months period ending on last day of June. Assume there is no W- I- P at the end of any month and finished units will be equal to half of the sale for the next month.	Month	Jan	Feb	Mar	Apr	May	June	July	Product A	1000	1200	1600	2000	2400	2400	2000	Product B	2800	2800	2400	2000	1600	1600	1800	10	5
Month	Jan	Feb	Mar	Apr	May	June	July																				
Product A	1000	1200	1600	2000	2400	2400	2000																				
Product B	2800	2800	2400	2000	1600	1600	1800																				
e.	Discuss various methods used in production control system.	10	4																								

SECTION C

3. Attempt any one part of the following:

Q no.	Question	Marks	CO
a.	What are the key concepts related with Production planning & control ?	10	2
b.	What is the use of forecasting ? Explain the uses and limitations of weighted moving average method of forecasting.	10	3



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4. Attempt any one part of the following:

Q no.	Question	Marks	CO
a.	Explain the procedure for routing and material flow patterns.	10	2
b.	Define mass production and batch production. What are the advantages and disadvantages of mass production and batch production ?	10	3

5. Attempt any one part of the following:

Q no.	Question	Marks	CO
a.	What is aggregate planning ? Explain the key factors taken into consideration in aggregate planning.	10	2
b.	What is MRP I & II ? What are key components and benefits of MRP ?	10	2

6. Attempt any one part of the following:

Q no.	Question	Marks	CO
a.	What are the types of waste ? Explain the various sources of waste generation. What is the importance of waste management ?	10	3
b.	Explain the 5S technique of waste management.	10	2

7. Attempt any one part of the following:

Q no.	Question	Marks	CO
a.	What are the various objectives and advantages of control systems ?	10	3
b.	Explain the role of Gantt Charts in production control.	10	2