



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

SUMMER-2024	
Exam Seat No.:	
Academic Year:2023-2024	Semester:II
Class:F.Y.	Program:MBA
Branch Code:M.B.A.	Pattern:2022
Name of Course:Operations Management	Course Code:MBA22204
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 pages.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.
6. Solve (a) or (b) and (c) or (d) from Q. No. 3, 4 and 5.

Question No. 1 Attempt following Question

- 1a) Discuss the evolution from Physical distribution to Logistics to Supply chain management. (6) CO1

Question No. 2 Attempt following Question

- 2a) Innovation is the driver of progress and success in 21st century business – Explain with examples. (6) CO2

Question No. 3 Attempt following Question

- 3a) 'Production planning and control address a fundamental problem of low productivity, inventory management and resource utilization' Illustrate the statement with suitable examples. (8) CO3

OR

- 3b) The following network diagram represents activities associated with a project: (8) CO3

Activities	A	B	C	D	E	F	G	H	I
Optimistic Time	5	18	26	16	15	6	7	7	3
Pessimistic Time	10	22	40	20	25	12	12	9	5
Most Likely Time	8	20	33	18	20	9	10	8	4

Determine:

- a. Expected Completion Time

- c. Critical Path
- d. Length of Critical Path

3c) Describe Total Productive Maintenance (TPM) and its eight pillars. (8) CO3

OR

3d) Illustrate the steps involved in Material Requirement Planning with special reference to home appliances manufacturing company. (8) CO3

Question No. 4 Attempt following Question

4a) Enumerate any four characteristics of: (8) CO4

- i) Service quality.
- ii) Product Quality

OR

4b) A manufacturing company needs 2500 units of a particular component every year. The order processing cost for this part is estimated at Rs. 15 and the cost of carrying a part in stock comes to about Rs, 4 per year. Determine: (8) CO4

- a. EOQ
- b. Total Cost under EOQ
- c. The optimal number of orders in a year.

4c) Draw a customer gap model for a pharmaceutical industry. (8) CO4

OR

4d) Write in detail with example: (8) CO4

- i) Six Sigma
- ii) Lean Management

Question No. 5 Attempt following Question

5a) Discuss the various view in supply chain with example. (8) CO5

OR

5b) Compose Generic Supply Chain Structure for new start-up of vegetable and fruit selling company. The company receives the orders on their Android and IOS APP. Workable assumptions can be considered. (8) CO5

5c) Discuss in detail the enablers of Supply Chain. (8) CO5

OR

5d) Elaborate on key issues in SCM with examples. (8) CO5

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