



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

InSem Examination-II Summer 2025	
Exam Seat No.:	
Academic Year: 2024-2025	Semester: IV
Class: SY MBA	Program: MBA
Branch Code: 10	Pattern: 2022
Name of Course: World class Manufacturing	Course Code: MBA224405
Max. Marks: 30	Duration: 1 Hour 15 Minutes

**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 \_\_1\_\_ page(s).
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. Question no 1 and 3 are compulsory. Choose a) or b) from Question no. 2 and 4

**Marks CO**

**Question No. 1**

- 1 a) Write down the Pillars of World Class Manufacturing (3) CO1  
1 b) Explain any 4 World Class Manufacturing Strategies. (4) CO1

**Question No. 2**

- 2 a) Elaborate Taichi Ohno's 8 Percepts from the 10 Percepts: To think and Act to Win. (8) CO1

**OR**

- 2 b) The Shingo Guiding Principles are the basis for building a sustainable culture of organizational excellence. Prove the above statement by explaining any 5 principles. (8) CO1

**Question No. 3**

- 3 a) What is Benchmarking? Why it is needed? (3) CO2  
3 b) Write down the steps in Benchmarking (4) CO2

**Question No. 4**

- 4 a) Explain in detail the types of Benchmarking with suitable examples. (8) CO2

**OR**

- 4 b) What are Bottlenecks in Manufacturing? Explain in detail how to identify the bottlenecks. (8) CO2

..... End of question paper.....