



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:III
Class:SY	Program:MBA
Branch Code:M.B.A.	Pattern:2022
Name of Course:Productivity Management	Course Code:MBA22 3 4 10
Max. Marks:30	Duration:1.15 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 _____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.

Question No. 1 Attempt following Question

- 1 a) Define Productivity Management and its scope. (6) CO1

OR

- 1 b) Describe the factors affecting Productivity (6) CO2

Question No. 2 Attempt following Question

- 2 a) Elaborate the concept of Value Analysis and Value Engineering (6) CO2

OR

- 2 b) Explain the concept of Work Study with examples. (6) CO2

Question No. 3 Attempt following Question

- 3 a) In making a time study of a laboratory technician performing an analysis of processed food in a canning factory, the following times were noted for a particular operation. (6) CO3

Run	1	2	3	4	5	6	7	8	9	10	11	12
Operation time(sec.)	21	21	16	19	20	16	20	19	19	20	40	19
Run	13	14	15	16	17	18	19	20	21	22	23	24
Operation time(sec.)	21	18	32	19	15	18	18	35	21	20	20	19

If the technician's performance has been rated at 120 percent, and the company policy for allowance (personal, fatigue, etc.) stipulates 13 percent,

(i) Determine the normal time.

(ii) Determine the standard time.

Watch readings falling 50 % above and 25 % below the average may be considered as abnormal.

OR

3 b) Illustrate the concept of Method Study with examples (6) CO3

Question No. 4 Attempt following Question

4 a) Discuss the Total Productivity Model (6) CO4

OR

4 b) Discuss the Performance Measurement POP Model (6) CO4

Question No. 5 Attempt following Question

5 a) Assess the application of following techniques in Productivity (6) CO5

Management:

a. JIT

b. BPR

OR

5 b) Assess the application of World Class Manufacturing in Productivity Management. (6) CO5

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