



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:IV
Class:SY	Program:B.Tech
Branch Code:ROB	Pattern:2022
Name of Course:Industrial Management	Course Code:ROB222015
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.

Question No. 1 Attempt following Question

- 1a) A1 State and explain any three principles of management. (6) CO1
- A2 What is the organizing function of management? What is its importance?

Question No. 2 Attempt following Question

- 2a) Which are different types of business sectors. Compare Proprietorship and Partnership with respect to profit. (6) CO2

Question No. 3 Attempt following Question

- 3a) A1 Differentiate between Method study and Work measurement (8) CO3
- A2 State any four types of element in time study with example of each

OR

- 3b) B1 What is scheduling function pf PPC? Draw a simple Gantt chart showing the schedule on daily basis. (8) CO3

B2 Following data refers to a time study taken on a job

Element No	Observed Time (sec)	Rating(%)	Frequency
1	50	80	1
2	25	90	1
3	75	100	½

4	100	70	$\frac{1}{2}$
5	120	75	1
6	10	110	5/1

Relaxation allowance is 12.5% and contingency allowance is 3%. Calculate the standard time.

- 3c) C1 State and explain any two types of attribute control charts used in statistical quality control. (8) CO3
 C2 What is a two handed process chart? What are its applications?

OR

- 3d) D1 What is rating? Why it is required? (8) CO3

D2 In a work sampling study, following data was recorded

Total time observed = 4800 mins

Number of working observations = 3500

Number of Idle observations = 500

Performance Rating = 110

Number of parts produced = 2400

Calculate the standard time if relaxation allowance is 12%

Question No. 4 Attempt following Question

- 4a) Enlist and explain supply chain challenges in manufacturing industry. (8) CO4

OR

- 4b) What is the impact of a mismatch in supply and demand? How can supply chain cost be reduced? (8) CO4

- 4c) What is digital supply chain? How it is used in inventory management. (8) CO4

OR

- 4d) Enlist and explain important components of Supply chain management. What is effect of information break on supply chain? (8) CO4

Question No. 5 Attempt following Question

- 5a) Enlist the types of Information systems. Explain enterprise resource planning in detail. (8) CO5

OR

- 5b) How secure information system can be developed. Explain in detail (8) CO5

- 5c) Explain influence of new Government Policies on setting up an business in India. (8) CO5

OR

- 5d) What is start up India policy and its registration process? (8) CO5

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