

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BBAR	Date	: 09-07-2026
Subject Code	: BBAR404	Time	: 03:00pm to 05:15pm
Subject Name	: Production and Operations Management	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Write objectives and functions of Production and Operations Management.
2. Explain in detail about factors affecting plant layout.
3. Describe the types of different Layout.
4. Write in detail about Production Planning.
5. Write about Quality Control in detail.

Section B

Answer the following (Attempt any four) (20)

1. Write difference between Production and Operations Management.
2. Write about the Relationship between Plant Layout and Material Handling.
3. Write a note on Control Charts.
4. Write a note on Six Sigma.
5. Write a note on Concept of Purchase Management.
6. Write a note on Characteristics of Good Design.

Section C

Part – A (Multiple Choice Questions) (10)

- 1 What is QFD?
a. Quality Functional Deployment b. Quality Functional Design
c. Both of these d. None of these
- 2 What is Facility Design
a. It is the arrangement of the work space within a facility
b. It involves determining the capacity, location, and layout for the production ability.
c. It is the placement of a facility with respect to its customers and suppliers
d. None of these
- 3 What are the problems with poorly planned layout?
a. Congestion b. delays
c. Accidents d. All of these
- 4 What are the problems with poorly planned layout?
a. Congestion b. delays
c. Accidents d. All of these
- 5 Quality assurance is a tool.
a. Corrective b. Managerial
c. Both of these d. None of these
- 6 What is the aim of quality control?

- a. To identify defects after a product is developed and before it's released.
 - b. to improve development and test processes so that defects do not arise when the product is being developed
 - c. Both of these
 - d. None of these
- 7 What is control chart?
- a. It is used to control product quality
 - b. The control chart is a graph used to study how a process change over time.
 - c. Both A and B
 - d. None of these
- 8 Unnecessary movement of raw material or product is known as which type of waste?
- a. Inventory
 - b. Transportation
 - c. Overproduction
 - d. All of these
- 9 What are the types of acceptance sampling?
- a. Attributes sampling
 - b. Variable sampling
 - c. Both of these
 - d. None of these
- 10 How many categories does TQM have?
- a. Two
 - b. Three
 - c. Four
 - d. Six

Part – B (Do as Directed)

(10)

Write True or False:

- 1 Industrial Engineering helps in value analysis, method analysis, and job enrichment.
- 2 Industrial Engineering is the development of effective and efficient processes to be applied in plants, machinery, and materials.
- 3 Industrial Engineering has no role in improving productivity, quality, or efficiency.
- 4 Industrial engineers do not participate in technology development and transfer.
- 5 The main functions of industrial engineers include both solving product development problems and managing people and resources.
- 6 Ergonomics is concerned with the man-machine system and the interaction between people and their work environment.
- 7 The characteristics of work study include increased productivity, increased efficiency, and improved workflow.
- 8 Work measurement does not determine the standard time required to complete an improved method.
- 9 Productivity is the study of methods and locating improved methods.
- 10 Sales forecasting involves only production planning and has nothing to do with market opportunities.
