

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

Course	: BBAR	Date	: 21-Feb-2026
Subject Code	: BBAR-404	Time	: 03:00pm to 05:15pm
Subject Name	: Production & Operation Management	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain the Functions of Production and Operations Management.
2. Explain the Materials Handling and Equipments.
3. Explain the Control charts in Details.
4. Explain the Scope of Operation Research.
5. Explain the Classification of Operation Research Model.

Section B

Answer the following (Attempt any four) (20)

1. Explain the Production Planning and Control.
2. Explain product Layout.
3. Explain the Network Analysis.
4. Explain the ISO 9000.
5. Explain the Concept of Supply Chain Management.
6. Explain the Method Study.

Section C

Part – A (Multiple Choice Questions) (10)

1. What are the functions of production management?
A Quality and Cost Control B Inventory Control
C Production Planning D All of these
2. Which of the following factors are needed to be considered when selecting the location of an enterprise or project ?
A Local Laws and Regulations B External Economies
C Both B and C D None of these
3. Unnecessary movement of materials and equipments should be reduced as per _____ principle.
A mechanization B Flexibility
C simplification D None of the above
4. What is PERT ?
A Programme Evaluation and Review Technique B Program execution and Review Technique
C Program execution and resource Technique D None of these

- 5 What are the types of acceptance sampling?
 A Attributes sampling B Variable sampling
 C Both of these D None of these
- 6 Which of the following is the type of six sigma level certification?
 A Lean Six Sigma Green Belt B Lean Six Sigma Red Belt
 C Lean Six Sigma White Belt D None of these
- 7 What are the issues generated in absence of Maintenance policy?
 A Increase in production cost as fixed labor cost cannot be reduced. B Costs are always controlled.
 C There are no major breakdowns. D None of these
- 8 What does organizational techniques for product development contains?
 A Manufacturing Resource Planning (MRP) B Computer Aided design
 C Concurrent Activities Management D None of these
- 9 To solve any type of business and organizational problem, operation research Make use of _____.
 A statistical analysis B mathematical modeling
 C Both A and B D None of these
- 10 Which of the following best describes the concept of Lean Manufacturing?
 A Managing waste B Keeping waste
 C Cutting waste D All of the given

Part – B (Do as Directed)

(10)

(True or False)

- 1 Production Operation requires more time.
- 2 Group Technology is the combination of Product and Combination Layout.
- 3 Walkie stackers is used as industrial trucks.
- 4 It ensures better service to customers by delivering quality goods within the specified time period is the advantage of PPC.
- 5 The control chart is a graph used to study how a process changes Over time.
- 6 Quality Assurance involves top management only.
- 7 Raw material procurement is required for effective process strategies.
- 8 operation research factors provide solution for Non–Quantifiable Factors.
- 9 PDCA cycle comprises four different phases.
- 10 Visualization of the whole work is one of the uses of Kanban cards.
