

Roll No.

Total No. of Pages : 03

Total No. of Questions : 10

MBA / MBA(IB) (Sem.-2)
PRODUCTION AND OPERATIONS MANAGEMENT

Subject Code : MBA-205-18

M.Code : 76157

Date of Examination : 24-11-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contains EIGHT questions carrying TWO marks each and students has to attempt ALL questions.
2. SECTION-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
3. SECTION-C is COMPULSORY and consist of ONE Case Study carrying TWELVE marks.

SECTION-A

1. Write briefly:

- a) Discuss the need and importance of method study.
- b) Define value analysis and state its scope.
- c) What is the meant by transformation process model?
- d) What is meant by franchising? Discuss its relevance to operations management.
- e) Define value analysis and state its scope.
- f) Explain the concept of job and batch production.
- g) What do you understand by the term Economic Order Quantity?
- h) Explain the utility of six sigma.

SECTION-B

UNIT-I

2. Discuss the need and importance of new product design and development. Explain the steps involved in new product design & development, with examples.
3. Discuss the objectives of Plant Location. What are the various important factors to be kept in mind while deciding a new plant location? Give examples.

UNIT-II

4. What are the various types of plant layouts? Also, discuss the problems faced while deciding on a facility layout.
5. List and discuss the various factors affecting capacity planning decisions.

UNIT-III

6. What is meant by 'Quality Trilogy' specified by Juran? Discuss its role in quality enhancement.
7. List and discuss the various tools for quality improvement.

UNIT-IV

8. What is the significance of Inventory management in Operations Management? Discuss the classification of various types of inventories.
9. Explain Value analysis in operations management. Discuss the virtual factory concept.

SECTION-C

10. CASE STUDY :

XYZ Ltd. does the ABC classification of the various components and parts it uses assembling its tractors, for

- As an operations manager, you are required to classify the following parts and components into A, B and C categories according to their usage values.
- Draw the ABC distribution curve.
- Item #8 has a high criticality class i.e. a shortage of this item may lead to a complete halt in the production process. What special treatment can be given to this item?

Item ID #	Unit Price (Rs.)	Annual usage (Units)
1	4	90,000
2	30	2,500
3	74	380
4	63	13,400
5	700	180
6	2,200	640
7	400	70
8	3	350
9	88	5,900
10	2	200,000

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.