

## IMBA in FS Sem.-6 Examination

## FS - 602

## Production and Operation Management

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

**Instructions:**

- Figures to the right indicate Full Marks.
- Do not write anything on the question paper.

- Q.1 What are the recent trends in plant location decisions? Discuss the factors influencing modern plant location strategies in a globalized economy. 14

OR

Draw the network diagram, follow AON method and find critical path.

Activity	P	Q	R	S	T	U	V
Immediate Predecessors	-	-	P	Q, R	S	T	T
Duration(Days)	7	5	6	8	9	4	7

- Q.2 A) Find job waiting and machine waiting time. 14

Jobs	a	b	c	d	e	f
Machine 1	4	3	9	8	6	8
Machine 2	7	6	5	4	7	6
Machine 3	9	4	4	3	6	4

OR

Explain the concepts of Production Design and Process Planning in detail. How do they interrelate, and why are they critical in achieving efficient manufacturing operations?

- Q.3 Describe key components of production and inventory control. 14

OR

Write a detail note on TQM.

- Q.4 Solve the problem and draw proportionate chart. 14

Day	1	2	3	4	5	6	7
Defective item	13	14	11	9	12	8	13
Sample size	100	100	100	100	100	100	100

OR

Explain the role of Work Measurement and Quality Control in improving productivity. How do these two functions complement each other in a manufacturing environment?

- Q.5 Define the terms: (Write any seven, each carries 2 marks) 14

1. Reorder point
2. ABC classification
3. Operation management
4. TQM
5. JIT
6. DCM
7. Product design
8. MRP
9. CPM