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Total Number of Pages: 02

Course: MBA
Sub_Code: 18MBA205

2nd Semester Regular/Back Examination: 2023-24

SUBJECT: Operations Management

BRANCH(S): BA, BM, FM, FM&HRM, GM, HRM, IB, LSCM, MBA, MBA(A&M), MBA(M&F), MM, RM

Time: 3 Hour

Max Marks: 100

Q.Code: P499

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- Define a production system.
- Give any two objectives of time study.
- What is factor rating method for facility location?
- Discuss any two determinants of effective capacity.
- What do you mean by slack time?
- What is VED method for inventory control?
- Give any two benefits of supply chain management.
- Give any four principles of total quality management.
- Give two main differences between PERT and CPM.
- What are the objectives of inspection?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)

(6 x 8)

- Draw a distinction between production and operations management.
- Discuss any three elements of operations strategy.
- Discuss the roles and responsibilities of operations manager.
- What do you mean by work measurement? Discuss its benefit.
- Distinguish between the "P" system and "Q" system of inventory management.
- Discuss the importance of long-term capacity planning.
- Discuss the factors influencing the choice of facility location.
- What do you mean by line balancing? Discuss.
- Write a note on material requirements planning (MRP).
- Discuss the objectives of supply chain and explain briefly the activities involved in supply chain management.
- What do you mean by statistical quality control? What are its advantages?
- Write a note on ISO 9000 series.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** Explain the need and procedures for aggregate planning. Discuss in details the relevant cost associated with aggregate planning. **(16)**
- Q4** Discuss the principles of facility layout. Explain in details the different types of facility layout. **(16)**
- Q5** Explain the importance of inventory management in industries. Discuss in details the EOQ model as an inventory control technique. **(16)**
- Q6** A project has following activities, duration, costs and relationship **(16)**

Activity	Time in weeks		Cost (Rs.)	
	Normal	Crash	Normal	Crash
1-2	6	4	10,000	14,000
1-3	4	3	5,000	8,000
2-4	3	2	4,000	5,000
3-5	6	6	9,000	12,000
4-5	7	4	7,000	8,000

- i) Determine the critical path and duration of project completion
- ii) Develop a cost-time trade off analysis and crash the project to its minimum duration at the lowest cost