



**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

Semester : 3rd Sem. MBA

Batch : 2025-27

Subject : Supply Chain Management & Logistics

Subject Code : MBPC3013

Date : 09.09.2026

Class Test : I

Duration : 1 Hr.

Full Marks : 30

Section-A

1. Answer any four out of following questions. [4 x 2 = 8]
- State the objective of supply chain management. [CO1]
 - Write the concept of Push-Pull supply chain. [CO1]
 - What is the difference between supply chain and value chain? [CO1]
 - Differentiate between centralized and decentralized supply chain. [CO1]
 - What are the prominent Entities in Supply Chain Management? [CO1]

Section-B

2. Answer any two questions out of following [2 x 6 = 12]
- Explain the Bull-whip Effect with example. What are the causes and consequences of the same? [CO2]
 - How CRM is used in supply chain management? [CO1]
 - Determine the forecast of the demand for the 7th month using 3 months weighted moving average method. The weight for the recent periods can be taken as 0.5, 0.3 and 0.2 respectively. Also calculate the RMSE. [CO2]

Month	Demand
1	120
2	130
3	110
4	140
5	110
6	130
7	?

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- Discuss various qualitative and quantitative methods of demand forecasting. [CO2]
 - Fit a straight line Trend by the method of Least Square from the following Time Series. [CO2]

year	Sales
2014	5
2015	7
2016	9
2017	10
2018	12
2019	17
2020	19

All the Best



**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

Semester : 3rd Sem. MBA
Batch : 2025-27
Subject : Project Management
Subject Code : MBPC3014

Date : 10.09.2026
Class Test : I
Duration : 1 Hr.
Full Marks : 30

Section-A

1. **Answer any four out of following questions.** **[4 x 2 = 8]**
- a) Differentiate between OBS and WBS. [CO1]
 - b) What are the two types of project communication? Discuss with examples. [CO1]
 - c) Define greenfield and brownfield projects. [CO1]
 - d) What is project charter? [CO1]
 - e) What is "Post Mortem Meeting"? In which phase of project life cycle is this carried out? [CO1]

Section-B

2. **Answer any two questions out of following.** **[2 x 6 = 12]**
- a) Elaborate the different types of project management structures. Highlight the advantages and disadvantages of each structure. [CO1]
 - b) Explain all the stages of Project Life cycle. [CO2]
 - c) Take an example of a healthcare project to illustrate the most feasible and appropriate KPI framework Selection. [CO1]

Section-C

3. **Answer any one out of following questions.** **[1 x 10 = 10]**
- i) Green Basket AgroFoods Ltd. is considering the purchase of a refrigerated delivery vehicle to improve its cold-chain distribution and reduce product spoilage. The vehicle requires an initial investment of ₹2,40,000 and is expected to be used for one year for the proposed project. The company estimates that the investment will generate a cash inflow of ₹3,00,000 at the end of one year. The company's required rate of return (discount rate) is 15%. Management needs to determine whether the proposed investment is financially feasible. Calculate the following and justify whether the project should be accepted or rejected: [CO2]
- i. Payback Period (PB)
 - ii. Profitability Index (PI)
 - iii. Present Value (PV)
 - iv. Net Present Value (NPV)
 - v. Internal Rate of Return (IRR)
- ii) Swiggy Instamart is planning to establish a new 8,000 sq. ft. dark store in Patia, Bhubaneswar to improve quick-commerce delivery in the area. The project must be completed within 16 weeks with a maximum budget of ₹1.80 crore. The proposed facility should be capable of handling around 1,500 orders per day and approximately 3,500 SKUs. The store will require separate areas for receiving, storage, refrigerated and frozen products, order picking, packing, dispatch and returns. The project includes interior modifications, storage racks, refrigeration equipment, fire-safety systems, CCTV, power backup, barcode-based inventory management and integration with Swiggy's existing ordering system. The layout should minimise order-picking time and facilitate smooth movement of employees and delivery partners. The project will not include development of the Swiggy mobile application, purchase of delivery vehicles, advertising campaigns or routine operations after handover. Assume that you have been appointed as the Project Manager for the proposed Swiggy Instamart dark-store project. Based on the information provided in the case, design a detailed Project Scope Statement. [CO3]

**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

Semester : 3rd Sem. MBA
Batch : 2025-27
Subject : Operations Strategy
Subject Code : MBPC3015

Date : 10.09.2026
Class Test : I
Duration : 1 Hr.
Full Marks : 30

Section-A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) Define Operations Strategy. [CO1]
 - b) Give two examples for performance objectives. [CO2]
 - c) What is meant by Operations discipline? [CO1]
 - d) How is Value Chain dynamics associated with Operations strategy? [CO3]
 - e) What is meant by economies of scale? [CO2]

Section-B

2. Answer any two questions out of following [2 x 6 = 12]
- a) Give an overview of the content of operations strategy. [CO2]
 - b) Explain how market requirements impact operations strategy. [CO3]
 - c) Explain the order-winning and qualifying factors in competitiveness. [CO2]

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- a) Explain in details the operations strategy matrix. Support with industry examples also. [CO3]
 - b) What is meant by performance objectives? Discuss the internal and external effects of the performance objectives. [CO3]

**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR****Semester : 3rd Sem. MBA****Batch : 2025-27****Subject : Total Quality Management****Subject Code : MBPC3016****Date : 09.09.2026****Class Test : I****Duration : 1 Hr.****Full Marks : 30****Section-A**

1. Answer any four out of following questions. [4 x 2 = 8]
- a. Define Quality as per ISO9000 series and explain its significance. [CO1]
 - b. What are the root causes for unethical behaviour? [CO1]
 - c. How is QMS different from IMS? [CO3]
 - d. Differentiate the traditional and current approaches to Quality [CO2]
 - e. State the elements of QMS [CO1]

Section-B

2. Answer any two questions out of following [2 x 6 = 12]
- a. Explain the various dimensions of Quality and illustrate your answer with an example. [CO1]
 - b. Compare and Contrast Japanese and American Approaches to Quality [CO3].
 - c. What is a TQM Framework? Explain the basic concepts with the help of a neat Sketch. [CO1]

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- a. What do you mean by Benchmarking and how does one implement the process? [CO3]
 - b. Draw and Explain the elements of TQM with a neat figure. [CO1]

All the Best