Name: **Enrolment No:**	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Supplementary Examination, December 2023

Course: Operations Management
Semester: I
Program: MBA CORE **Time : 03 hrs.**
Course Code: LSCM 7001 **Max. Marks: 100**

Instructions: All questions are compulsory.

SECTION A
10Qx2M=20Marks

S. No.	**Describe the various terms mentioned below.**	**Marks**	**CO1**
Q 1	Material Requirements Planning (MRP)	**2**	**CO1**
Q 2	Inventory Management	**2**	**CO1**
Q 3	Quality Control	**2**	**CO1**
Q 4	Lean Manufacturing	**2**	**CO1**
Q 5	Forecasting	**2**	**CO1**
Q 6	Capacity Planning	**2**	**CO1**
Q 7	Just In Time (JIT)	**2**	**CO1**
Q 8	Risk Management	**2**	**CO1**
Q 9	Operation Research	**2**	**CO1**
Q 10	Economic Order Quantity (EOQ)	**2**	**CO1**

SECTION B
4Qx5M= 20 Marks

Q 1	Highlight the benefits of adopting a quality management system (QMS) for organizational success.	**5**	**CO2**
Q 2	What type of layout is preferably adopted in a garment manufacturing factory and why?	**5**	**CO2**
Q 3	Outline the principles of lean manufacturing and explain how they can be applied to streamline operations and reduce waste.	**5**	**CO2**
Q 4	Discuss the various elements of inventory cost and their tradeoff for economic consideration	**5**	**CO2**

SECTION-C
3Qx10M=30 Marks

Q 1	Explain the concept of materials management and its significance in the overall business operations.	**10**	**CO2**
Q 2	Compare and contrast the advantages and disadvantages of a process layout versus a product layout in manufacturing settings.	**10**	**CO3**

Q3	Write the factors and explain its significance for the selection of business location (manufacturing or services).	**10**	**CO2**
SECTION-D 2Qx15M= 30 Marks			
Q 1	What are the key considerations in designing a facility layout for mass production versus custom production? Compare and contrast these two approaches.	**15**	**CO3**
Q 2	Explore the relationship between total productivity management (TPM) and organizational performance. How can successful TPM implementation contribute to sustained competitive advantage?	**15**	**CO3**