UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2023

Course: Logistics in Manufacturing Sector
Semester: V
Program: BBA (LM) **Time** : 03 hrs.
Course Code: LSCM 3015 **Max. Marks: 100**

Instructions: All questions are compulsory.

SECTION A
10Qx2M=20Marks

S. No.	Describe the various terms mentioned below.	Marks	CO
Q 1	Job shop manufacturing	2	CO1
Q 2	Continuous manufacturing	2	CO1
Q 3	Efficiency and Productivity	2	CO1
Q 4	Smart Manufacturing	2	CO1
Q 5	Casting and forming	2	CO1
Q 6	Key performance indicators (KPIs)	2	CO1
Q 7	Competitive advantage	2	CO1
Q 8	Mass Production	2	CO1
Q 9	Competitive strategy	2	CO1
Q 10	Just In Time Manufacturing	2	CO1

SECTION B
4Qx5M= 20 Marks

Q 1	Identify and discuss two challenges that India faces in enhancing its manufacturing capabilities. Suggest possible solutions for overcoming these challenges. (4 marks)	5	CO2
Q 2	Provide a classification of factories based on the products they manufacture. Discuss the advantages and challenges associated with different types of factories, such as continuous process, intermittent process, and job shops.	5	CO2
Q 3	Define distribution strategy and discuss its significance in achieving overall business objectives. How does a well-defined distribution strategy contribute to competitive advantage?	5	CO2
Q 4	Describe the key benefits of implementing automation in Material Handling Equipment (MHE) within a manufacturing facility.	5	CO3

SECTION-C
3Qx10M=30 Marks

Q 1	Discuss the role of artificial intelligence in modern manufacturing automation. Provide two examples of how AI is utilized to improve efficiency and productivity in manufacturing plants.	**10**	**CO3**
Q 2	Discuss the impact of technological advancements on manufacturing processes, with examples of how automation and digitization have influenced traditional manufacturing methods.	**10**	**CO3**
Q3	Explore the concept of a green supply chain. How can companies integrate environmentally friendly practices into their entire logistics and supply chain processes?	**10**	**CO4**
SECTION-D **2Qx15M= 30 Marks**			
Q 1	Explain the significance of integrating inbound and outbound logistics in supply chain management. Discuss how a seamless coordination between these two aspects contributes to overall operational efficiency and cost-effectiveness. Provide real-world examples to support your arguments.	**15**	**CO3**
Q 2	Analyze and discuss the key components involved in conducting a comprehensive logistics assessment. Discuss how each component contributes to optimizing overall logistics efficiency. Provide examples to support your explanation.	**15**	**CO4**