Name : _____ **P 1024**

Reg. No._____

LOYOLA COLLEGE OF SOCIAL SCIENCES
(ESTD-1963)

(AUTONOMOUS)

Affiliated to University of Kerala
Accredited with A++ by NAAC
Sreekariyam, Thiruvananthapuram, Kerala.

FIRST SEMESTER MA (HUMAN RESOURCE MANAGEMENT) (REGULAR) EXAMINATION, JANUARY 2025
(2024 Admissions)

HR 516 : INDUSTRIAL ENGINEERING AND OPERATIONS MANAGMENT

Time 3 hours ***Max: 75 Marks***

Nos.	**Part A: Write Short notes on the following: Answer ANY TEN Questions in not exceeding 50 words. Each carries 2 marks**	**Course Outcome**	**Blooms Level**	**Marks**
Q1	CPM	CO3	Understand	2
Q2	HACCP	CO3	Understand	2
Q3	Process Planning	CO2	Understand	2
Q4	ISO 14001	CO3	Understand	2
Q5	Quality Circle	CO3	Understand	2
Q6	TQM	CO4	Understand	2
Q7	Deming's Wheel	CO4	Understand	2
Q8	Production Planning and Control	CO2	Understand	2
Q9	OSHA standards	CO3	Understand	2
Q10	Supply Chain Management	CO4	Understand	2
Q11	Operations Management	CO2	Understand	2
Q12	Inventory management in industrial operations	CO1	Understand	2
Q13	Flow-shop scheduling	CO2	Understand	2
	Part B : Answer ANY FIVE out of the EIGHT questions in not exceeding 500 words	**Course Outcome**	**Blooms Level**	**Marks**
Q14.	Illustrate how ergonomic principles are applied in Industrial Engineering.	CO1	Apply	5
Q15.	Compare the differences between MRP I (Material Requirements Planning) and MRP II (Manufacturing Resource Planning). Evaluate how their functionalities align with the goals of production planning and control.	CO2	Apply	5
Q16	Analyze the importance of quality control tools such as control charts in ensuring product quality.	CO4	Apply	5

Q17	Analyze a real-world production environment and recommend whether a product layout or process layout would be more suitable for enhancing efficiency.	CO3	Apply	5
Q18	Describe the importance of accurate forecasting in making informed decisions in operations management.	CO3	Understand	5
Q19	Examine the various factors that influence productivity in manufacturing and service industries.	CO1	Apply	5
Q20	Evaluate the importance of SA 6000 certification in ensuring ethical workplace practices.	CO3	Evaluate	5
Q21	Evaluate the effectiveness of JIT in reducing inventory costs and improving production efficiency. Discuss the potential risks associated with JIT implementation and suggest strategies to mitigate these risks.	CO3	Evaluate	5
	Part C: Answer ANY TWO out of FOUR questions in not exceeding 1200 words	**Course Outcome**	**Blooms Level**	**Marks**
Q22	Create a comprehensive plan for selecting an optimal facility location for a manufacturing company. Identify and evaluate the key factors influencing location decisions, such as labor availability, transportation costs, and proximity to suppliers and customers. Propose strategies to mitigate the risks of poor location choices and enhance operational performance.	CO3	Create	15
Q23	Analyze the role of inventory management in optimizing operational efficiency. Discuss how different inventory control techniques, such as EOQ and ABC analysis, can reduce costs and enhance performance.	CO4	Apply	15
Q24	”Industrial Engineering bridges the gap between productivity and quality." Critically analyze this statement with examples from manufacturing and service industries.	CO1	Analyse	15
Q25	Bring out the role of layout design in a manufacturing facility. Explain how different layout designs can influence the efficiency of production processes. Illustrate with examples two types of facility layouts commonly used in manufacturing and discuss their advantages in specific production environments.	CO2	Apply	15