

	Semester: June 24 -	- Oct 24		
Maximum Marks: 50 Examination: ESE Examination Date:	13-11-24 Duration: 2	2 Hrs.		
Programme code: 01 Programme: MBA		Class: FY	Semester: I	
College: K. J. Somaiya Institute of Management	Name of the department/Section/Center: Operations			
Course Code: 317P01C108		Name of the Course: Operation	tions Management	

Instructions:

- **1.** Question 1 is compulsory.
- $\textbf{2.} \quad \text{Answer any four questions from Question 2 to Question 7.}$
- $\textbf{3.} \quad \text{Make suitable assumptions wherever required.}$
- $\textbf{4.} \quad \text{The number written in bold and italics at the end of each question indicates marks.}$

QuestionNo.		Max Mark
Q1.	Case Study: Streamlining Operations at Flexi-Furn	10
	Background:	
	Flexi-Furn is a mid-sized furniture manufacturing company that produces custom-made office furniture. Over the last five years,	
	Flexi-Furn has seen rapid growth, resulting in increased demand for its products. While the company had maintained a strong	
	reputation for quality, it has started facing issues with delivery delays, inefficiencies in its production process, and rising operational	
	costs. These issues are threatening its competitive advantage, and the management is concerned about the long-term sustainability of	
	the business.	
	Problem Statement:	
	Flexi-Furn's operations manager, Maya, is tasked with identifying the bottlenecks in the production process and implementing	
	changes to improve efficiency. As part of her analysis, Maya identifies several key areas of concern:	
	Inventory Management: The company has been overstocking raw materials, leading to high holding costs, while still experiencing	
	stockouts of key materials for production.	
	Production Workflow: There are frequent delays and idle times in production due to inconsistent workflow and unbalanced labor	
	allocation across departments.	
	Lead Times: Flexi-Furn has missed multiple deadlines due to long lead times in its production cycle. Customers are increasingly	
	frustrated with the delays.	
	Quality Control: Defects in products have risen by 15% over the last two years, leading to an increase in rework and waste.	
	Maya's main objectives are to:	
	1) Reduce lead times and increase on-time delivery rates.	
	2) Streamline the production process to reduce idle times and inefficiencies.	
	Improve inventory management to lower costs and ensure smoother production.	

	4) Implement b	better quality co	ontrol measures	s to decrease d	efects and was	ste.				
		•	ting a Just-in-T	. ,		em help Flexi-l	Furn reduce	operational co	osts and improve	
	Q2. What are the	he financial an	d operational in	npacts of impr	oving quality	control at earlie	r stages in the	production pr	ocess?	
Q2.	1. What	 A. For a particular item, the annual demand is 52000 units. The economic order quantity is 2166 units. 1. What is average time between any 2 orders placed. 2. If the lead time to purchase is 2 weeks, what is the R.O.P (ReOrder Point)? 								10
	B. Differen	tiate between c	continuous (Q)	and periodic (P) inventory co	ontrol systems.	(5)			
Q3.	The sale	of 2 wheelers	in the last 9 mo	onths at a Reta	il outlet is give	en in Table.				10
	Jan	Feb	March	April	May	June	July	Aug	Sep	
	145	110	100	140	130	140	160	165	180	
	 A. Use 2 months and 3 month moving average method to determine the Forecast. B. Make a comparison of the 2 and 3 months Moving average forecast using the Mean Square error criteria. Which system is more accurate? 									
		-	the 2 and 3 mor	nths Moving a	verage forecas	st using the Mea	nn Square erro	or criteria. Whi	ch system is more	
Q.4	A. What is the	? importance of	lean manufactu	uring?		st using the Mea			ch system is more	10
Q.4 Q5.	A. What is the B. How does an A. You are launchin developr	importance of n ERP (Enterpria a product manage a new Chocoment process for	Tlean manufacturise Resource Prager for a compolate Bar for micon the same? What is a same?	uring? Planning) syste pany manufact iddle and lower that difficulties	m impact the puring Chocolar income group	performance of a te Bars & confe ps of customers.	a company? (ctionary. The	company is th	inking of oing the product	
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