

SNS COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to Anna University, Chemnai Accredited by NAAC-UGC with 'A++' Grade (Cycle III) & Accredited by NBA (B.E-CSE, EEE, ECE, Mech & B.Tech.IT) (An Autonomous Institution)



B.E/B.Tech- Internal Assessment - III COIMBATORE-641 035, TAMIL NADU Reg. No:

19MEE311 – LEAN SIX SIGMA FOR SUPPLY CHAIN MANAGEMENT Academic Year 2024-2025 (Even Semester) Mechanical Engineering Sixth Semester

Time: 11/2 Hours Answer All Questions Maximum Marks: 50

The future of global sourcing (Mckinsey) Simplify the 'Quick response' logistics (Amazon) Explain the route map to responsiveness Difference between demand management and demand planning Define supply chain fulcrum PART - B (2*13=26 Marks) & (1*14=14 Marks) C04 C04 CO₅ COS CO₅ CO Blooms REM UND UND ANA UND

(a) Discuss how a responsive supply chain can be developed by reducing the lead-time gap, improving demand visibility, and adopting agile practices. 13 CO4 ANA

CO

Blooms

6.

(a) 9 Evaluate the role of information technology in enabling lean and agile Construct your answer with real-world examples and appropriate supply chains. supply chain models. 13 13 CO4 COS ANA REM

7.

(a) 3 Summaries the IT systems support quick response logistics, manage effective demand management and the use of information technology Inspect how supply chain responsiveness can be achieved through global complexity, and improve supply chain visibility. 14 13 CO₅ ANA APP

00

Illustrate your answer with the Japanese philosophy and a case study 14 CO₅ ANA

(b)

from the software sector (Adobe)

REM – Remember Bloom's Taxonomy: UND - Understand APP-Apply ANA-Analyze EVA - Evaluate (7)

Prepared by St 5 125 CRT - Create 400-(6477) Teaching Coordinator

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HbD/Mech

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SNSCT/IQAC/CLT/1.43 (Ver 2)

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Academic Year 2024-2025 (Even Semester) B.E/B.Tech- Internal Assessment – III Sixth Semester

Reg. No:

19MEE311 – LEAN SIX SIGMA FOR SUPPLY CHAIN MANAGEMENT Mechanical Engineering

Answer All Questions Maximum Marks: 50

Time: 11/2 Hours

	CO	CO Blooms
Define forecast capacity	C04	UND
Formulate the lead time gap	CO4	ANA
State the Product 'push' versus demand 'pull'	CO5	REM
Mention the basic in virtual lean supply chain (Amazon)	CO5	UND
Explain about marketing logistics (Amazon)	CO5	UND

	PART – B (2*13=26 Marks) & (1*14=14 Mark
3	_

Blooms

	6.
<u>6</u>	(a)
Illustrate the demand planning and 'pull-based' logistics strategies 13 CO4	Discuss how Adobe applies the principles of supply chain 13 CO4 responsiveness and agility in a digital product environment.
	4 ANA
UND	NA

6	(b) Illustrate the definate primiting and primiting a second control of the second contr		
	contribute to its performance.	;	
(a)	(a) Explain how information technology enables quick response logistics 13 CO3 UND	C	CIND
	in olohal lean supply chains.		

7.

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	in global lean supply chains.	Lybian non miscuration
(OR)		0
(OR)		
COS		
APP		

How does McKinsey advise organizations to reduce complexity and C COS .

Analyse how Amazon reduces the lead-time gap and improves demand improve responsiveness using digital tools 74 C04 ANA

8

(a) 9

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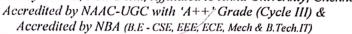
how Deloitte suggests using IT solutions to manage this in lean and Discuss the product design impacts in supply chain complexity and visibility to build a responsive supply chain (Amazon) 14 COS ANA

REM - Remember CRT - Create Bloom's Taxonomy: global environments (Deloitte) UND - Understand APP- Apply ANA- Analyze EVA - Evaluate Brown 3/2/12 reaching Coordinator ToD/Mech



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COIMBATORE-641 035, TAMIL NADU

Institution	SNSCT
Branch	Markonical Engineering
Semester	51
Course Code/Name	IGHEESIL- LSSSCM
Name of the Faculty	Hr. H. Gocetberg
	P

S.No	Quality Parameters basedon blooms	Grade points (g)	Part	No of Questions(n)	Allotted marks (m)	n*m	Q= n*m*g
	Remember/	1 frag	Α	04	02	8	8
1	Understand (Level - 1,2)	1	В	02	13	26	26
	1,2,		С	,			
. =			Α			4	_
2	Apply (Level - 3)	2	В	0	13	13	26
		.2	С				
A		1	Α	01	02	2	6
3	Analyze (Level - 4)	3	В	03	13	13	39
-11	11.	El (A ₁	С	62	14	28	24
			Α		_		
4	Evaluate(Level-5)	4	В				
			С		1		
			Α				
5	Create (Level -6)	5	В				
			С				

 $Q_1 = \frac{\sum Q}{\sum (nxm)} = \frac{153}{90} = 1.70 - 10W$ Quality Index

Teaching Coordinator

VIS.



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Institution	susct
Branch	Machanical Engineering
Semester	\sim
Course Code/Name	DMERSIL- LSSSCH
Name of the Faculty	Mr.M. Constan

S.No	Quality Parameters basedon blooms	Grade points (g)	Part	No of Questions(n)	Allotted marks (m)	n*m	Q= n*m*g
	Remember/	1	А	04	02	8	8
10	Understand (Level -	_1	В	01	13	13	13
	1,2)		C				
		7	Α				
2	Apply (Level - 3)	2	В	01	14	14	28
			С				
			А	01	02	2	6
3	Analyze (Level - 4)	3	В	03	13	39	117
1	14	6.3	B	0	14	14	42
			Α		and a		
4	Evaluate(Level-5)	4	В				
			С				
7			А				
5	Create (Level -6)	5	В				
			С				

Quality Index
$$Qi = \frac{\sum Q}{\sum (nxm)} = \frac{214}{90} = \frac{2.37}{37} \text{ Medium}$$

Teaching Coordinator VIG.

HoD/Mech