UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, Dec 2019

Program: MBA LSCM
Semester – III
Subject (Course): Lean Supply Chain Management   **Max. Marks   : 100**
Course Code   : LSCM 8012   **Duration   : 3 Hrs**
No. of page/s: 2

SECTION A (Attempt all)	[10x2 = 20 marks]	
Q1. Name the two pillars of Toyota Production Systems.	2	CO1
Q2. A product centric strategy and primarily focus is on exploiting economies of scale of stable product designs and non-unique technologies is defined as_____.	2	CO2
Q3. From the below figure, identify and name all the process mapping symbols are used in making pasta?	6	CO3
Q4. Name the 6th S in TPS?	2	CO1
Q5. The term _____ was first used in a book called "The Machine that Changed the World" (1990) written by James Womack, Daniel Jones, and Daniel Roos.	2	CO4

Q6. Lean is a "systematic approach to identifying and eliminating waste (non-value added activities) through continuous improvement by flowing the product only when the customer needs it (called _____) in pursuit of _____.	4	CO5
Q7. MTO stands for _____.	2	CO3
SECTION B (Attempt any four)	**[4x5 = 20 marks]**	

Q8. Write short notes on any four:
  A) The Toyota 3M Model
  B) Cellular Manufacturing
  C) World Class Manufacturing
  D) Process Maturity
  E) Continuous Improvement
		CO1,
		CO2,
		CO3,
		CO4,
		CO5

SECTION C (Attempt all)	**[3x10 = 30 marks]**	
Q9. What is Lead Time? Why is it important and how to reduce it?	3+3+4	CO4
Q10. Compare lean principles with TPS principles.	5+5	CO1, CO3
Q11. Define lean culture with an example. Discuss the three steps taken towards lean culture change.	4+6	CO2
SECTION D (Compulsory)	**[2x15 = 30 marks]**	
Q12. Who coined the term "Poka-yoke" and in which year? Define the term "poka-yoke". Give two examples that you are using in your everyday life. Explain the step-by-step process to apply it and what are its benefits?	15	CO4
Q13. Define Kanban. How it works? Explain it using suitable example. How Kanban system is different from Kaizen system?	15	CO2, CO5