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VII SEMESTER B.TECH. (MECHANICAL/IP ENGINEERING) END SEMESTER EXAMINATIONS, DEC 2019

SUBJECT: LEAN MANUFACTURING [MME 4007] (PE VI)

REVISED CREDIT SYSTEM (_/_/2019)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **all** questions.
- Missing data may be suitably assumed.

1A.	What is Seiton and Seiso in 5s concept? Explain.	4
1B.	With a neat sketch explain how the problem is solved in a manufacturing unit	3
	with the help of visible management system.	
1C.	Explain cycle time, value added time and lead time.	3
2A.	With neat sketch explain any eight value stream mapping information icons.	4
2B.	List the points to be considered to design a Kanban.	4
2C.	Why Kanban scheduling is also called as demand scheduling? Explain.	2
3A.	A company produces knife in a process with 7% scrap and the downstream	3
	scrap of the processes that use the knife are 3%. To meet daily production of	
	750 for this knife, how many parts would need to be run?	
3B.	Write a short note on how collected data should be analyzed in Kanban.	3
3C.	Explain internal lead time and supplier lead time.	4
4 A	What is economic order quantity? Explain with a numerical example	3

4B.	Explain the framework for reducing lead time with a flow chart.					
4C.	Differentiate product flow layout and job shop layout.					
5A.	Explain four setup concepts used to reduce setup time.					
5B.	Explain how standard operations are determined in standardization of	4				
	operations.					
5C.	What are internal and external setup time.	2				
