



VII SEMESTER B.TECH (MECHANICAL/IP ENGG.) END SEMESTER EXAMINATIONS, NOVEMBER 2017

SUBJECT: LEAN MANUFACTURING [MME 4007]

REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ALL** the questions.

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| 1A. Explain the primary purpose of lean manufacturing. | 4 |
| 1B. Explain the characteristics of a lean value stream. | 4 |
| 1C. What is value stream mapping? Explain. | 2 |
| 2A. Explain benefits of kanban scheduling. | 4 |
| 2B. Explain the steps to implement kanban. | 4 |
| 2C. What is replenishment cycle? Explain in brief. | 2 |
| 3A. Write a note on adopting increased and decreased demand. | 4 |
| 3B. Explain the components of production lead time. | 4 |
| 3C. Compare the Kanban system with MRP. | 2 |
| 4A. Explain the four major setup concepts. | 4 |
| 4B. Explain elements of standard operations. | 4 |
| 4C. Explain Yo-i-don System. | 2 |
| 5A. Write a note on supermarket pull system. | 3 |
| 5B. Write a note on supplier kanbans. | 3 |
| 5C. Write a note on steps for conveyance improvement. | 2 |
| 5D. Write a note on organization structure for promoting setup time reduction. | 2 |