5/15/24, 9:00 AM MME 4047

Exam Date & Time: 05-Jan-2024 (02:30 PM - 05:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH SEMESTER B.TECH END SEMESTER MAKE UP EXAMINATIONS, JAN 2024

Lean Manufacturing IMME 40471

Lean Manufacturing [MME 4047] Marks: 50 Duration: 180 mins. A Answer all the questions. Instructions to Candidates: Answer ALL questions Missing data may be suitably assumed Describe the significance of kaizen in your daily routine. 1) (2) A) B) If you were a production manager, elucidate the process of Kanban implementation. (4) C) Explain 'Seiso' and 'Shitsuke' in lean manufacturing. (4) As the head of an automobile company, illustrate with clear diagrams the concepts of 2) production Kanban and withdrawal Kanban. (3) A) B) Explain the Andon system and accompany your explanation with well-drawn sketches. (3) C) Discuss the goals and elements associated with the standardization of operations. (4) 3) Outline the framework of Toyota's production smoothing using a flow chart. (4) A) B) As a value stream manager, provide a brief overview of your job responsibilities. (3) C) Elaborate on how to minimize processing time through Small-Sized Lot Production. (3) If you are a production manager, detail how you would maintain production smoothing 4) during fluctuating market demand. (4) A) B) Explain the concept of jidoka with an example. (3) Detail the differences between product flow layout and job shop layout. C) (3)

Describe the four setup concepts employed to minimize setup time.

5)

(4)

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A)

B) Illustrate any six value stream mapping icons and provide a detailed explanation of each.

C) Provide a comprehensive explanation of pokayoke and its applications. (3)

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