

Reg. No. :

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Question Paper Code: 95P19

M.E. DEGREE EXAMINATION, MAY 2022

Elective

CAD / CAM

19PCD519 - LEAN MANUFACTURING

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

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|----|-----|---|--------|------|
| 1. | (a) | (i) Why craft production. | CO1- U | (5) |
| | | (ii) Explain about the basic image of lean production. Explain it in detail | CO1- U | (15) |
| | | Or | | |
| | (b) | Explain Muda in detail. Differentiate muda ,mura and muri with example. | CO1- U | (20) |
| 2. | (a) | Write a Short notes on | CO2-U | (10) |
| | | (i) Standardized work and kaizen. | | |
| | | (ii) Common layouts. | CO2-U | (10) |
| | | Or | | |
| | (b) | Explain TPM process in detail. | CO2- U | (20) |
| 3. | (a) | What is JIT. Explain the components of JIT in detail. | CO3- U | (20) |
| | | Or | | |
| | (b) | Explain the types of kanban and the six kanban rules in detail. | CO3-U | (20) |
| 4. | (a) | What are the types of detection methods of poke-yoke . Explain it in detail | CO4- U | (20) |
| | | Or | | |
| | (b) | What is poka-yoke . Explain the inspection system and zone control. | CO4- U | (20) |

5. (a) Explain the kaizen circle activity with its application CO5- U (20)
- Or
- (b) Explain the Hoshin Planning System in detail. CO5- U (20)
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