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Question Paper Code: 55P19

M.E. DEGREE EXAMINATION, MAY 2018

Elective

CAD / CAM

15PCD519 - LEAN MANUFACTURING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) (i) Compare mass and lean production. CO1- U (10)
(ii) What are the different forms of waste(muda)? What are the traditional ways to minimize them. CO1- U (10)
Or
- (b) Explain the revolution of lean production in detail. CO1- U (20)
2. (a) Explain TPM process in detail and brief the machine loss pyramid in detail. CO2-U (20)
Or
- (b) Explain TPM process in detail. CO2- U (20)
3. (a) Explain the types of kanban and the six kanban rules in detail. CO3- U (20)
Or
- (b) What is value stream mapping ? explain it in detail. CO3-U (20)

4. (a) (i) What are the various methods to achieve Poka-Yoke. Explain in detail. CO4- U (15)
(ii) List and explain the various issues in implementing JIDOKA. CO4- U (5)

Or

- (b) What are the types of detection methods of poke-yoke . Explain it in detail. CO4- U (20)

5. (a) (i) What is Hoshin planning and focus of hoshin planning. CO5-Ana (5)
(ii) Discuss the different phases of hoshin planning system. CO5-Ana (15)

Or

- (b) Discuss lean culture in detail. CO5-Ana (20)
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