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Question Paper Code: 53P01

M.E.DEGREE EXAMINATION, NOV 2018

Third Semester

CAD / CAM

15PCD301 – COMPETITIVE MANUFACTURING SYSTEMS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) (i) What is adaptive control? CO1- U (4)
(ii) What is the purpose of implementing the adaptive control in manufacturing? Explain it in detail with example. CO1- U (16)

Or

- (b) What is flexible fixturing. Explain its types in detail. CO1- U (20)
2. (a) Explain the single batch scheduling and N batch scheduling in detail. CO2- Ana (20)

Or

- (b) Modeling the problem of scheduling for 'n' operations and 'm' machines with example. CO2- Ana (20)
3. (a) (i) System design and data base layout for FMS and explain the importance of database in FMS. CO3-U (10)
(ii) Write short notes on CO3-U (10)
(a) Manufacturing data systems
(b) dataflow

Or

- (b) Describe the CAD/CAM consideration for designing a FMS. C03-U (20)
4. (a) Explain the Poka Yoke concept, methods and implementation in detail. CO4- U (20)
- Or
- (b) What is Hoshin Planning and explain the hoshin planning system in detail. CO4- U (20)
5. (a) Explain the preventive maintenance technique in a production System. CO5- U (20)
- Or
- (b) (i) Explain the kanban system in detail. CO5- U (12)
- (ii) Explain the components of JIT. CO5- U (8)
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