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Question Paper Code: 53P11

M.E.DEGREE EXAMINATION, NOV 2017

Third Semester

CAD / CAM

15PCD301 – COMPETITIVE MANUFACTURING SYSTEMS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

(5 x 20 = 100 Marks)

1. (a) (i) Describe the NC principles. (5)
(ii) Explain the types of control systems in detail. (15)

Or

- (b) (i) What is material handling and movement. (5)
(ii) Explain the type of material handling methods used in manufacturing industry. (15)
2. (a) Explain the N product scheduling and apply the concept with suitable example. (20)

Or

- (b) Modeling the problem of scheduling for 'n' operations and 'm' machines with example. (20)
3. (a) (i) Elaborate the various types of FMS software modules. (10)
(ii) Discuss the importance of palletizing. (10)

Or

- (b) Describe the CAD/CAM consideration for designing a FMS. (20)

4. (a) What is Hoshin Planning and explain the hoshin planning system in detail. (20)

Or

(b) Explain the TPM process and its stages in detail. (20)

5. (a) Explain the preventive maintenance technique in a production system. (20)

Or

(b) (i) What is line flow strategy ? What are the expected outcomes of such arrangements? (10)

(ii) What are the implementation issues of JIT? How are they overcome? (10)
