

B.Tech III Year II Semester (R13) Supplementary Examinations December 2016 CAD/CAM

(Mechanical Engineering)

Time: 3 hours

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Name the techniques that are used for improving the design of a product through CAD.
 - (b) Define Rendering.
 - (c) List out the types of Geometric modeling.
 - (d) What do you understand the 'Snap' feature in CAD?
 - (e) Write the applications of CNC machine.
 - (f) Mention any four types of CNC machines.
 - (g) What are Flexible Transfer Lines (FTL)?
 - (h) Write the benefits of FMS.
 - (i) Write the examples of Shop Floor data collection.
 - (j) List the functions of MRP modules.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 Explain the elements of a CAD system.

OR

- 3 Write short notes on the following 2-D transformations:
 - (a) Scaling.

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(b) Translation.

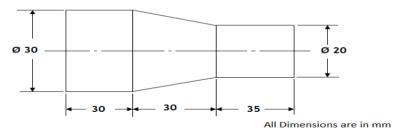
UNIT – II

- 4 Explain the following Geometric Modeling techniques:
 - (a) Surface Modeling.
 - (b) Constructive Solid Geometry (CSG).
- 5 Describe the features of a Drafting package

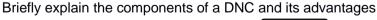


OR

6 Construct a CNC program for given diagram with description and process diagram.



OR





- 8 Describe in detail the various components of FMS and write its advantages and disadvantages.
- 9 Explain in detail the various components of FMS.

UNIT – V

OR

10 Classify the Coding systems and explain the Opitz classification system with a diagram.

Explain the following Concepts NARESULTS.CO.IN

- (a) Master Production Schedule.
 - (b) Materials Requirement Planning.

Max. Marks: 70