

Code.No: 37260

R05

SET-2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
IV.B.TECH - I SEMESTER REGULAR EXAMINATIONS NOV/DEC, 2009
CAD/CAM

(Common to ME, MMT, MEP, AE)

Time: 3hours

Max.Marks:80

Answer any FIVE questions
All questions carry equal marks

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- 1.a] What is meant by Engineering Analysis and Engineering Synthesis?
b] Define Automation? Explain Different types of manufacturing Automation systems. [6+10]

2. What is meant by Concatenation Matrix? Demonstrate how translation; scaling and rotation operations can be performed simultaneously on a graphic element using Concatenation Matrix. [16]

3. Describe with the help of neat sketches the major surface entities provided CAD/CAM systems. [16]

- 4.a] Differentiate between surface, solid and wire frame modeling representation.
b] Describe the variable and linear sweep representation schemes. [8+8]

- 5.a] Discuss the different types of NC words used in part programme technique.
b] Draw the block diagram of DNC and Explain briefly about structures. [8+8]

- 6.a] Explain the composite part concept in group Technology with example.
b] Explain the "MICLASS" classification and coding systems used in GT. [8+8]

7. Explain the concept of "manufacturing flexibility". What are its objectives? Write about each type of flexibility. [16]

- 8.a] What are the two approaches to computer aided process planning. Explain briefly.
b] What are the benefits of CAPP? Discuss in detail. [8+8]
