Code.No: 37260   R05   SET-1

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]   Explain the computer aided Design process with the help of a block Diagram.
  b]   Elaborate on the basic requirements that a CAD software has to satisfy.   [8+8]

2.a]   What are entities? Explain the methods of defining lines, arcs and circles in wire frame modeling.
  b]   From fundamentals; Derive the Hermite cubic Spline equations.   [8+8]

3.a]   What do you mean by weighting function. Differentiate from the blending function.
  b]   Describe C^0, C^1, C^2 containing in composite B-Spline surface.   [8+8]

4.   What do you mean by primitive instancing? Explain CSG scheme for complex   solid modeling objects representation.   [16]

5.a]   Draw the block Diagram of Adaptive control with constraints and briefly discuss   their features.
  b]   Discuss any five motion statements used in APT part programming language.
                                                                                [8+8]

6.a]   Compare a process type layout and group technology layout for batch production.
  b]   Explain optiz classification and coading system in GT.   [8+8]

7.   Discuss principles of material handling. Name and Describe the five types of maternal handling devices.   [16]

8.   Explain with the aid of block Diagram the concept of "CIM".   [16]