(egistration No:	
Total Number of Pages: 1 M.TECH CMPC101	
1st Semester Regular/Back Examination – 2014 COMPUTER GRAPHICS BRANCH(S): CAD / CAM ENGINEERING Time: 3 Hours Max Marks: 70 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.	
	\sim (2x10)
a) What a b) Define c) What d) Explai e) Explai g) What h) What i) Discussible What i) Discussible What	the iterative procedure in the Design process? do you mean by Raster scan technique? In the different ways to draw 3-D drawing. In briefly about geometric modeling. In the basic principle of CRT. Iterative procedure in the Design process? In the different ways to draw 3-D drawing. In the basic principle of CRT. Iterative procedure in the Design process? Iterative procedure in the Design process. Iterative pro
corne) (0.0.1) (0.1.0) (1.0.0) (1.0.1) (1.1.0) (1.1.1) Determine the locations of the corners if
the cu	the is first translated by 3.0 units in the x direction and then scaled by a factor of 4.0. do you mean by Transformations? Explain about the common transformations used (5) nputer.
(0,2), i.Tra ii.Sc iii.Sc	riangle is defined in a two-dimensional ICG system by its vertices (10) (0,3),and(1,2).Perform the following transformations on this triangle. Anslate the triangle in space by 2 units in the x direction and 5 units in the y direction. ale the original triangle by a factor of 1.5. ale the original triangle by a factor of 1.5 in the x direction and 3.0 in the y direction. the the original triangle by 45° about the origin.
	pare the splines for the same control points created by B-splines and Bezier spline (5)
techr b) Com	pare the wire frame modeling and solid modeling with details. (5)
Q5 a) Expla	ain the typical configuration of hardware components in a stand alone CAD (5)
work b) Wha	station. t are the different functions a graphics package must perform? Explain with examples. (5)
Q6 a) Wha	t do you mean by Data exchange system? Discuss briefly the various data exchange (5)
b) Desc	ems currently in use. cribe the working principle of the important output devices used in CAD? (5)
	can you draw a 500 pixel wide square on a 1280 x 1024 screen whose aspect ratio is (5).
4:3. b) Desc	cribe briefly the surface modeling commands with a few application examples. (5)
a) Intrin b) Soft c) Swe	e Short Notes (Any Two) nsic and parametric representation ware in CAD/CAM application. ep representation ipulations of curve and surface