



END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY-JUNE 2012

Time: 3 Hours Note: Q.no.1 is compulsory. Attempt one question from each unit. Q1 Answer any five of the following in brief: (a) Interactive graphics (b) Dream weaver (c) Raster scan display (d) How aliasing effect is minimized? (e) Why Transformation required? (f) Could you carry out composite operation in normal Cartesian system? (g) Why Transformation required? (g) Could you carry out composite operation in normal Cartesian system? (g) Why Transformation required? (g) Parametric curves. (g) Parametric curves. (g) Tools for delivering multimedia on web. (g) Describe one application of multimedia. (g) List a few softwares of multimedia with applications. Q2 (a) Describe Bresenham mid point circle drawing algorithm. Draw an octant of a circle of radius 'r' and centred at origin giving all steps. (g) Role of computer graphics for scientific visualization. How does it help for improved understanding? Q3 (a) What and why clipping? List methods of clipping and describe one which you think is the best with reasons. (b) (ii) What are hidden surfaces? (iii) How do we represent 3-D objects on 2-D VDU? (g) What is the need of homogenous coordinate system for 2-D and 3-I Transformation? Compute the transformation matrix which reduces the square with vertices A(8,0), B(8,8), C(0,8) and D(0,0) to half its size keeping D fixed a (0,0). Q5 (a) How rotation process differs in 3-D system compared to 2-D system? (b) Discuss steps to window-to-view part transformation. Why is it needed? (6.5) WINT-II	Pape	r Code: BCA306	Subject: Computer Graphics & Multimedia Applications
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