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Roll No ....

IT-6003 (CBGS)

B.E. VI Semester

Examination, May 2019

Choice Based Grading System (CBGS)

Computer Graphics and Multimedia

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

     ii)   All questions carry equal marks.

1.   a)   Explain the role of pixel and Frame buffer in graphics devices?

    b)   Describe the architecture of a roster scan display with a clear block diagram. How it differ from scan display ?

2.   Explain Bezier curves ? If a Bezier curve pasies through (2,1) and (6,2) and controlled by the points.

3.   a)   Rotate a Triangle A (0,0) , B (2,2) ,C (4,2) about the origin and about P(-2,-2) as by an angle of 45°.

    b)   Explain in detail about CRT monitors and keyboard with suitable diagram.

4.   a)   Reflect the polygon (-1,0), (0,-2) (1,0) and (0,2) about the line Y= 2 by using transformation matrix?

    b)   Explain Sutherland Hodgeman polygon clipping algorithm. Why this algorithm works for only convex clipping region?

5.   What are the components of multimedia system? In what Formats are these data stored in computer? How they are linked with each other?

6.   a)   What are steps involved in compression of image? What are different types of compression techniques? Briefly explain one of them?

    b)   Explain video image and Animation?

7.   a)   Explain multimedia Authoring tools?

    b)   Write the properties of B-spline. Show that B spline curve is nonuniform and periodic.

8.   Write a short notes (any three)

    a)   JPEG

    b)   RGB and HSV

    c)   Storage technologies

    b)   Positioning techniques

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