Roll	No.	***************************************

BCA-401(N)

B. C. A. (Fourth Semester) EXAMINATION, May/June, 2015

(New Course)

Paper First

COMPUTER GRAPHICS AND MULTIMEDIA APPLICATION

Time: Three Hours

[Maximum Marks: 75

Note: Attempt questions from all Sections as directed.

Section-A

3 each

(Short Answer Type Questions)

Note: Attempt all questions.

- 1. (A) What is Computer Graphics? Describe its uses.
 - (B) Explain the conceptual framework of interactive graphics.
 - (C) Discuss and explain Bresenham's algorithm for circle generation.
 - (D) Differentiate between Raster scan display and Random scan display.
 - (E) Explain Cohen-Sutherland line clipping algorithm.
 - (F) Use DDA algorithm to construct the line from (0, 0) to (4, 6).
 - (G) Differentiate between hypermedia and hypertext.

B-28 P. T. O,

(H) Θ Perform a counterclockwise 45° rotation of triangle A (2, 3), B (5, 5) and C (4, 3) about point (1, 1).

colour CRT monitors. Describe the various techniques which are used in

Section—B

(Long Answer Type Questions)

Note: Attempt any two questions.

Explain the working of CRT with the help of diagram.

What are the video controllers?

w matrix of a point rotated by angel φ. What do you understand by Rotation? Derive the rotation

Write short notes on any three of the following:

LCD

0 Input devices

(0) VGA

LED

Use the Bresenham's algorithm to construct the line from (5,5) to (13,9).

Section-C

(Long Answer Type Questions)

Note: Attempt any two questions.

Find the reflection of a point A [5, 9] about the line y=x+5.

Define multimedia. Explain the applications of multimedia. Explain the concept of polygon meshes. Describe different quadric surfaces.

computer animation ? Explain the types of animation. Define computer animation. What are the categories of Describe its use. Describe the features of multimedia.

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