

BCA-401(N)

B. C. A. (Fourth Semester) EXAMINATION, May, 2019

(New Course)

Paper First

COMPUTER GRAPHICS AND MULTIMEDIA APPLICATION

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 3 marks.

1. (A) Define Computer Graphics. Explain its use.
- (B) Write a short note on shadow mask.
- (C) What is the difference between LCD and LED?
- (D) Write down the Bresenham's line drawing algorithm.

(A-95) P. T. O.

- (E) Draw the line from (0, 0) to (4, 6) using DDA line drawing algorithm
- (F) Explain the following terms :
 - (a) Translation
 - (b) Rotation
- (G) What are the advantages of curves and surfaces?
- (H) Difference between Random Scan and Raster Scan.
- (I) Define Multimedia. Differentiate between Hypertext and Hypermedia.

Section—B

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 12 marks.

2. What is CRT? Explain the working of CRT with the help of diagram.
3. Explain and discuss the Cohen-Sutherland line clipping algorithm.
4. Find a transformation of triangle A (1, 0); B (0, 1); C (1, 1) by rotating 45° anticlockwise about the origin and then translating one unit in x and y direction.
5. Explain any three input devices.

Section—C

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 12 marks.

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

[3]

7. (a) What is Bezier curves ? Explain different types of Bezier curves.
- (b) What is Solid Modeling ? Explain the use of solid modeling.
8. Define Multimedia. Define multimedia components. Describe the applications of multimedia in real life.
9. Define Computer Animation. Explain the types of animations. Describe its applications.

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