

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

Sub. Code :

0	9	5	4
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Exam. Code :

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Bachelor of Computer Applications 6th Semester
(2054)

**COMPUTER GRAPHICS AND MULTIMEDIA
APPLICATIONS**

Paper : BCA-16-603

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :—Attempt FIVE questions in all, including Q. No. 9 in Section-E, which is compulsory, taking ONE each from Section-A to Section-D.

SECTION—A

1. What is Computer Graphics ? Explain the different applications of computer graphics in several fields. State any two graphics functions in graphics software. 13
2. What is Cathode Ray Tube (CRT) ? Explain the functioning of CRT with proper diagram. How is CRT different from LCD and LED ? 13

SECTION—B

3. What do you understand by computer-aided design (CAD) ? Highlight the salient features and major applications of CAD with suitable examples. 13

4. (a) Explain the following in the context of graphics programming in C :
- (i) Changing style of a line
 - (ii) Displaying text in graphics mode.
- (b) Write a C-program to draw concentric circles for radius varying from 10 to 50 units with a step size of 5.

7,6

SECTION—C

5. What is Multimedia ? Explain different components and characteristics of multimedia. Enumerate the stages of multimedia application development. 13
6. With the help of an illustration, explain the planning and design, Production and Distribution of a multimedia application. Elaborate the idea generation phase of multimedia project planning. 13

SECTION—D

7. List the characteristics of a good image authoring tool. Name any one popular multimedia-authoring tool and mention its salient features. 13
8. Explain the following :—
- (a) Audio file formats
 - (b) Lossy and lossless image compression. 7,6

SECTION—E

(Compulsory Question)

9. (a) What are the components of a Graphical User Interface (GUI) ? Explain.
- (b) Explain any three construction commands in AutoCAD.
- (c) Explain the difference between the terms multimedia systems and multimedia applications, with examples.
- (d) Explain control panel in Macromedia Director.

4,3,3,3