

(i) Printed Pages : 3 Roll No.

(ii) Questions : 9 Sub. Code :

1	7	9	5	4
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Exam. Code :

0	0	3	2
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**Bachelor of Computer Applications 6th Semester
(2055)**

**COMPUTER GRAPHICS AND MULTIMEDIA
APPLICATIONS**

Paper :BCA-16-603

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt *five* questions in all. Attempt *one* question from each Unit and the entire compulsory question. All questions carry marks as indicated.

UNIT—I

- I. (a) Discuss the use of Computer Graphics in the following fields :
- (i) Education
 - (ii) Computer Aided Design.
- (b) What is CRT ? What are the components of CRT ? Explain with diagram. 6+7
- II. (a) Explain the difference between Random Scan monitor and Raster Scan monitor.
- (b) Explain the working of Liquid Crystal Display. 6+7

UNIT—II

- III. (a) Explain the Editing commands and Positioning commands of AutoCAD.
- (b) What are the components of an AutoCAD interface ? What is Command line area meant for ? 6+7
- IV. (a) Explain the functions in C for drawing the following :
- (i) Circle
- (ii) Line
- (iii) Pie slice.
- (b) What are the different fill styles to fill the images in C graphics ? How do you use them ? 6+7

UNIT—III

- V. (a) What is the difference between a Multimedia system and a Conventional system ?
- (b) Describe the various Multimedia Add-on cards. 6+7
- VI. (a) Give the characteristics of Multimedia Authoring tools.
- (b) Explain the various stages of Multimedia application development. 6+7

UNIT—IV

- VII. (a) What is the difference between Audio and MIDI interface ?
- (b) What is Image Compression ? Differentiate Lossy and Lossless compression techniques. Explain any one compression algorithm for images. 6+7

VIII. (a) What is the significance of Stage, Cast, Text Inspector and Control Panel in Macromedia Director ?

(b) What are layers in Photoshop ? What are the various operations that can be performed on Layers ? 6+7

IX. Compulsory Question :

(1) Define Refresh rate of a monitor.

(2) What is Aspect ratio ?

(3) Name the color models in Photoshop.

(4) What is a Scanner ?

(5) What is Plug and Play ?

(6) What is Magic Wand in Photoshop ?

(7) Give two video file formats.

6×2+1