

(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
(2042)**

COMPUTER GRAPHICS & MULTIMEDIA APPLICATIONS

Paper : BCA-16-603

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt **one** question from each section and the entire compulsory question. All questions carry equal marks.

SECTION—A

1. (a) (i) Discuss the use of Computer Graphics in the field of Image Processing.
(ii) Explain the working of Video Controller.
(b) Explain the working of Cathode Ray Tube. 7+6
2. (a) What is Raster Scan system ? How does it work ?
(b) Explain the working of Dot-Matrix Printer and Drum Printer. 7+6

SECTION—B

3. (a) (i) Which are the common coordinate formats used in AutoCAD ?
(ii) What are the basic steps to be followed before setting up a drawing ?

(b) How do you do the following in AutoCAD ?

(i) Clean Up the drawing

(ii) Calculate the area of the object

7+6

4. (a) Write Graphic commands in C language for the following using the proper syntax :

(i) Ellipse

(ii) Rectangle

(iii) Bar

(iv) Bar3d

(v) Drawpoly

(vi) Pieslice

(vii) Fillellipse

(b) What are the different fill styles to fill the images ? 7+6

SECTION—C

5. (a) What is Multimedia ? What are the limitations of the early Personal Computer as a Multimedia System ?

(b) What are authoring tools ? What methodologies do these tools adapt to assemble the media contents ? 7+6

6. (a) What are the applications of multimedia in the fields of Training and Education and real world ?

(b) Give an example of any one Multimedia Application Development Commercial tool. Give its features. 7+6

SECTION—D

7. (a) What are Lossy and Lossless Image Compression ? Give any one algorithm of Image Compression.
- (b) Explain the Layers in Photoshop. 7+6
8. (a) What are the Hardware components of a Video System ?
- (b) Write short notes on :
- (i) Tools for making Cast members in Director
- (ii) Control Panel in Director 7+6

(Compulsory Question)

9. (1) How will you turn on Grid Mode in AutoCAD ?
- (2) What is RAID ?
- (3) Define RGB color system.
- (4) What is a workstation ?
- (5) What is mirror command in AutoCAD ?
- (6) What are the sources of images ?
- (7) What is Plug and Play ?

6×2+1