

(i) Printed Pages : 3

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(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**Bachelor of Computer Applications 6<sup>th</sup> 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