(i) **Printed Pages : 2**   Roll No. ....

(ii) **Questions : 9**   **Sub. Code :** | 0 | 9 | 5 | 4 |

Exam. Code : | 0 | 0 | 3 | 2 |

Bachelor of Computer Applications 6th Semester
1059

COMPUTER GRAPHICS AND MULTIMEDIA APPLICATIONS
Paper–BCA–16–603

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :— Attempt **five** questions in all by selecting **one** question from each Section. Entire question number IX is compulsory.

SECTION–A

I. What is Computer Graphics ? Describe its importance in the fields of Education and Training, Image Processing, Computer Aided Design and Visualization.   13

II. List and briefly explain various devices used in Computer Graphics.   13

SECTION–B

III. (a) Describe the role of AutoCAD in designing. Also explain its anatomy and main features.

(b) Give commands in AutoCAD to draw a circle, an ellipse and a rectangle.   7,6

IV. (a) Name and explain the primitives available in C language for drawing a line, rectangle and an arc.

(b) How can Pie chart and Sine curve be generated in C language ?   7,6

SECTION–C

V. (a) What is Multimedia ? Explain its main components.

(b) Describe any two platforms which offer support for Multimedia Applications.   7,6

VI. (a) Discuss the various add-on cards that handle different media.

    (b) Describe the rationale behind using any two Multimedia Development tools.   7,6

SECTION–D

VII. (a) Describe different types of images and basic editing operations that can be applied on images.

    (b) Name and describe various Audio file formats.   7,6

VIII. (a) Describe the color models and commonly used tools in Photoshop.

    (b) What is Macromedia Director ? How are cast members created in it ? Give steps.   7,6

IX. Entire question is compulsory. Write short answers.

    (1) How does resolution of a monitor affect its picture quality ?

    (2) What is X Y coordinate system ?

    (3) What is the difference between Tweening and Morphing ?

    (4) What do you mean by rubber band line in AutoCAD ?

    (5) Explain the utility of the Paint bucket tool in Photoshop.

    (6) Name file formats used by Macromedia Director for saving movies.

    (7) What is Key Frame ? $6×2+1=13$