

(i) Printed Pages : 2 Roll No.

(ii) Questions : 9 Sub. Code :

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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 ? $6 \times 2 + 1 = 13$