

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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Bachelor of Computer Applications 6th Semester
(2053)

**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 unit. Entire Question Number IX is compulsory.

UNIT—I

- I. (a) Explain the role of Computer Graphics in Presentation graphics, Visualization, and Image Processing.
- (b) What is Computer Aided Design ? Explain its use over manual design — Also explain its limitations. 6;7
- II. (a) Explain and differentiate the working of Random Scan and Raster Scan systems.
- (b) Explain the commonly used configuration for a Graphics Workstation. 7,6

UNIT—II

- III. What is AutoCAD ? Explain its interface and commonly used drawing and editing commands with examples. 13

- IV. (a) Explain various primitives used for setting Character and Text attributes.
- (b) Write a program to draw a Human Face. Explain the primitives used for drawing it. 6,7

UNIT—III

- V. (a) What is Multimedia ? Describe main features of a Multimedia system.
- (b) Describe applications of Multimedia in the field of Training, Education and Image Processing. 7,6
- VI. (a) Name and explain Multimedia Platforms.
- (b) Describe the features of any two development tools used for Multimedia applications. 7,6

UNIT—IV

- VII. (a) What is Image Compression ? Explain any two Compression techniques.
- (b) Describe any two storage devices used for storing Multimedia applications. 7,6
- VIII. (a) How are Layers and Filters used in Photoshop ? Explain briefly.
- (b) What is Macromedia Director ? Describe the main terminology used in it for developing an animation. 7,6

(Entire Question is Compulsory)

IX. Write short answers :

- (1) Explain the refresh rate of a Monitor.
- (2) What is Frame Buffer ?
- (3) What is the use of a Digitizer in Computer Graphics ?
- (4) What do you mean by rubber band line in AutoCAD ?
- (5) What is the role of Color Models in Photoshop ?
- (6) Explain the use of control panel in Macromedia Director.
- (7) What is Key Frame ?

6×2+1