

C 80108

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Name.....

Reg. No.....

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH/APRIL 2015

(U.G.—CCSS)

Core Course

CA 6B 14—COMPUTER GRAPHICS AND MULTIMEDIA

Time : Three Hours

Maximum : 30 Weightage

I. Answer all *twelve* questions :

- 1 The maximum number of points that can be displayed without overlap on a CRT is known as _____.
- 2 State True or False. In raster scan system the electron beam directs only to the parts of the screen where a picture is to be drawn.
- 3 In CRT, intensity of the electron beam is controlled by setting voltage levels on _____.
- 4 The initial value of the decision parameter in Midpoint circle algorithm is _____.
- 5 Assigning a value of _____ to both S_x and S_y in scaling transformation leaves the size of the object unchanged.
- 6 Mapping of a part of a world—co-ordinate scene to device co-ordinate is referred as _____.
- 7 MP3 stands for _____.
- 8 .avi files contains _____ type of data.
- 9 DAT is an acronym for _____.
- 10 Smallest addressable image element is called _____.
- 11 GIF is an example for _____ type of compression.
- 12 DVD is an example for _____ type of storage media.

(12 × ¼ = 3 weightage)

II. Answer all *nine* questions.

- 13 What are raster scan systems ?
- 14 Define aspect ratio of a video monitor.
- 15 State the sequence of transformations to perform general pivot point rotation.
- 16 Define window and viewport.
- 17 List any *four* applications of multimedia
- 18 What is meant by hypermedia ?
- 19 What is gray level image ?
- 20 What are the *four* steps in animation process ?
- 21 What is quantization ?

(9 × 1 = 9 weightage)

Turn over

III. Answer any *five* questions.

- 22 Explain the Shadow mask method for colour generation in raster scan systems.
- 23 Explain the basic refresh operation of a raster scan system.
- 24 Illustrate and explain the rotation and scaling geometric transformations.
- 25 What is MIDI explain ?
- 26 What is meant by speech analysis ?
- 27 Explain the basic concept of computer animation.
- 28 Discuss the quantization concept.

(5 × 2 = 10 weightage)

IV. Answer any *two* questions.

- 29 List out and explain the applications of computer graphics.
- 30 State and explain Bresenham's line drawing algorithm with an example.
- 31 Discuss JPEG and MPEG compression standards in detail.

(2 × 4 = 8 weightage)

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