

C 1839

(Pages : 2)

Name

Reg. No.....

SIXTH SEMESTER ~~B.C.A.~~ DEGREE EXAMINATION, MARCH/APRIL 2016

(UG—CCSS)

Core Course

CA 6B ~~14—~~COMPUTER GRAPHICS AND MULTIMEDIA

Time : Three Hours

Maximum : 30 Weightage

I. Answer all *twelve* questions :

- 1 The frame buffer on a black and white system with one bit per pixel is called _____
- 2 An **RGB** colour system with 24-bits of storage per pixel is generally referred to _____ system.
- 3 Printers that press formed character faces against an inked ribbon onto the paper are called _____ printers.
- 4 The initial value of the decision parameter in **Bresenham's** line drawing algorithm is _____
- 5 Transformation that moves objects from one co-ordinate location to another, **along** a straight-line path without deformation is known as _____
- 6 In Cohen-Sutherland line clipping algorithm every line end point is assigned a four-digit binary code called _____
- 7 **MIDI** stands for _____
- 8 **.flv** is the extension of _____ type of files.
- 9 _____ resolution describes the ability of any image-forming device distinguish small details of an object.
- 10 **GIF** stands for _____
- 11 **JPEG** is an acronym for _____
- 12 **PNG** is an example for _____ type of compression.

(12 x $\frac{1}{4}$ = 3 weightage)

II. Answer all *nine* questions :

- 13 What is a frame buffer ?
- 14 Why refreshing is needed for CRT's ?
- 15 What is horizontal and vertical retrace of a raster scan system ?
- 16 What is the difference between uniform scaling and differential scaling ?

Turn over

- 17 What is video conferencing ?
- 18 What is meant by hypertext ?
- 19 List the different type of image format.
- 20 What is DVI ?
- 21 What is entropy coding ?

(9 x 1 = 9 weightage)

III. Answer any *five* questions :

- 22 Explain the basic functioning of Cathode Ray Tubes.
- 23 Write the Midpoint circle drawing algorithm.
- 24 Explain the composite transformation, pivot point rotation.
- 25 Write a short note on video conferencing.
- 26 Discuss the types of multimedia authoring tools.
- 27 Explain about any *four* image file format.
- 28 What do you mean by JPEG standard ? Explain.

(5 x 2 = 10 weightage)

IV. Answer any *two* questions :

- 29 State and explain DDA line drawing algorithm with an example.
- 30 Explain Sutherland-Hodgeman polygon clipping algorithm.
- 31 Explain about optical storage media.

(2 x 4 = 8 weightage)