

**C 1839**

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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)