

CG MCQS Test on Unit 1 Date:5/1/17

1. Which of the following technique is used in Midpoint Subdivision algorithm ?

- a. Linear search
- b. Binary search
- c. Heap sort
- d. Bubble sort

2. Choose the correct statement?

- a. Random scan monitors draw a picture one line at a time
- b. The components line of a random scan picture must be refreshed in a particular order
- c. Raster scan monitors draw a picture one line at a time
- d. Random scan method is well suited for displaying shading and color areas

3. The major components of CRT are ?

- a. Electronic Gun
- b. Phosphorous coated screen
- c. Control electrodes
- d. Deflection yoke
- e. All of above

4. The process of representing continuous picture or graphics object as a collection of discrete pixels is called_____?

- a. scan conversion
- b. rasterization
- c. scanning
- d. graphical representation

5. (2,4) is a point on a circle that has center at the origin. Which of the following points are also on circle?

- a. (2,-4)
- b. (-2,4)
- c. (4,-2)
- d. (-4,2)
- e. All of above

6. Aspect ratio is generally defined as the ratio of the ?

- a. Vertical to horizontal points
- b. Horizontal to vertical points
- c. Vertical to (horizontal + vertical) points
- d. Either A or B , depending on the convention followed

7. Examples of Presentation Graphics is ?

- a. Bar Charts
- b. CAD
- c. Line Graphs
- d. A and C

8. The technique used to summarize the financial, statistical, mathematical, scientific and economic data is?

- a. Computer Art
- b. Image processing
- c. Presentation Graphics
- d. None of above

9. The amount of light emitted by the phosphor coating depends on the?

- a. Number of electrons striking the screen
- b. Speed of electrons striking the screen
- c. Distance from the cathode to the screen
- d. None of above

10. The maximum number of points that can be displayed without overlap on a CRT is referred to as_____?

- a. Resolution
- b. Persistence
- c. Attenuation
- d. None of above

11. The process of conversion of rasterized picture stored in the frame buffer to the rigid display pattern of video is called as_____.

a. scan conversion b. rasterization c. pixel d. raster

12. A line connecting the points (1,1) and (5,3) is to be drawn, using DDA algorithm. Find the value of x and y increments

a. x-increments = 1; y-increments =1

b. x-increments = 0.5; y-increments =1

c. x-increments = 1; y-increments =0.5

d. None of above

13. Types of computer graphics are

a. Vector and raster b. Scalar and raster c. Vector and scalar d. None of these

14. Vector graphics is composed of

a. Pixels b. Paths c Palette d. None of these

15. Raster graphics are composed of

a. Pixels b. Paths c. Palette d. None of these

16. Pixel can be arranged in a regular

a. One dimensional grid b. Two dimensional grid c. Three dimensional grid d. None

17. The quality of an image is depend on

a. No. of pixel used by image b. No. of line used by image c. No. of resolution used by image d. None

18. A palette can be defined as a finite set of colors for managing the

a. Analog images b. Digital images c. Both a & b d. None of these

19. Display card is used for the purpose of

- a. Sending graphics data to input unit
- b. Sending graphics data to output unit
- c. Receiving graphics data from output unit
- d. None of these

20. Color depth can be defined by _____ which can be displayed on a display unit

- a. Bits per pixel
- b. Bytes per pixel
- c. Megabyte per pixel
- d. None of these

21. Grey scale images have a maximum color depth of

- a. 8bit
- b. 16bit
- c. 24bit
- d. 32bit

22. Any CRT based display must be refreshing at least _____ times a second

- a. 20
- b. 30
- c. 40
- d. 10

23. Solid pattern in random scan display is _____ to fill

- a. Difficult
- b. Easy
- c. Not fill
- d. None of these

24. On a monochromatic monitor, the frame buffer is known as

- a) Display file
- b) Pixmap
- c) Bitmap
- d) Refresh buffer

25. On a color monitor, the refresh buffer is also called

- a) Frame buffer
- b) Pixmap
- c) Bitmap
- d) Display file

26. is the ratio of horizontal points to vertical points necessary to produce equal length lines in both direction.

- a) Dot Pitch
- b) Resolution
- c) Aspect Ratio
- d) Height-Width Ratio

27. The purpose of refreshing a CRT is

- a) To avoid flickering
- b) To maintain steady picture
- c) To avoid fading of pixels
- d) All of the above

28. The fly-back of electron beams from one scan line to next is known as

- a) Vertical Retrace
- b) Horizontal Retrace
- c) Raster scanning
- d) Refreshing

29. In raster scan display, the frame buffer holds

- a) Line drawing commands
- b) Scanning instructions
- c) Image Resolution
- d) Intensity information

30. In random scan display, the frame buffer holds

- a) Line drawing commands
- b) Scanning instructions
- c) Image Resolution
- d) Intensity information

31. GIF stands for

- a) Global Image Format
- b) Graphics Interchange Format
- c) Graphics Image Format
- d) None of the above

32. The resolution of 2*2 inch image that has 512*512 pixels is _____

- a. 256*256 pixels per inch
- b. 256 pixels per inch
- c. 128 *128 pixels per inch
- d. 128 pixels per inch

33. If a line is to be drawn from (0,0) to (4,6) using DDA line drawing algorithm, the third point to be plotted is _____

- a. (1,2)
- b. (2,3)
- c. (3,2)
- d. (2,1)

34. when a line with end points (20,10) and (30,18) is to be drawn using DDA line drawing algorithm, _____ is chosen as one raster unit.

- a. dx b. dy c. a or b d. any of above