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## Computer Graphics MCQ Questions

**Q1. The basic attributes of a straight line segment are**

- A. Type
- B. Color
- C. Width
- D. All of these**

**Q2. A dashed line could be displayed by generating\_\_\_\_\_.**

- A. Inter dash spacing**
- B. Very short dashes
- C. Both a and b
- D. A or B

**Q3. Which of the following is not a line-type?**

- A. Dotted line
- B. Dark line
- C. Dashed line
- D. Only b**

**Q4. The algorithm which displays line-type attributes by plotting pixel spans is**

- A. Raster scan algorithm
- B. Raster line algorithm**
- C. Random scan algorithm
- D. Random line algorithm

**Q5. Pixel mask means**

- A. A string containing only 1;s
- B. A string containing 1 and 0**
- C. A string containing only 0's
- D. A string containing 0 and 0

**Q6. A heavy line on a video monitor could be displayed as**

- A. Adjacent perpendicular lines
- B. Adjacent parallel lines**
- C. Both a and b
- D. Neither a nor b

**Q7. To set the line-width attribute the following command is used.**

- A. SETLINEWIDTHSCALEFACTOR (lw)
- B. Setlinewidthscalefacto (lw)
- C. setLineWidthScaleFactor (lw)**
- D. Setlinewidth()

**Q8. We can adjust the shape of the line ends to give them a better appearance by using**

- A. Line spacing
- B. Line caps**
- C. More dots
- D. Round cap

**Q9. We set the line-color value in PHIGS with the function**

- A. setPolylineColorIndex (lc)**
- B. SETPOLYLINECOLORINDEX (lc)
- C. setline Color()
- D. Only b

**Q10. A line drawn in the background color is**

- A. Visible
- B. Invisible
- C. Visible or Invisible
- D. Only b**

**Q11. The basic parameter to curved attributes are**

- A. Type
- B. Width
- C. Color
- D. All of the mentioned**

**Q12. Raster curves of various widths can be displayed using**

- A. Vertical spans
- B. Horizontal spans
- C. Horizontal or vertical spans**
- D. Horizontal and vertical spans

**Q13. If the slope magnitude is 1, then circles, ellipse and other curves will appear**

- A. Thick
- B. Thinnest**
- C. Big
- D. Rough

**Q14. One of the method for displaying thick curves is**

- A. Curve width
- B. Curve slope**
- C. Curve cap
- D. Only c

**Q15. The curves displayed with a rectangular pen will be**

- A. Thinner
- B. Thicker and magnitude slope is 1**
- C. Thicker and magnitude slope  $>1$
- D. B or C

**Q16. The color code “000” is for**

- A. Black**
- B. White
- C. Blue
- D. Green

**Q17. Color information can be stored in**

- A. Main memory
- B. Secondary memory
- C. Graphics card
- D. Frame buffer**

**Q18. Which one is not a type of basic fill styles?**

- A. Pattern
- B. solid color
- C. Hollow
- D. Dark**

**Q19. Hatch fill procedures are implemented to draw**

- A. Cross hatching
- B. Single hatching
- C. Either a or b**
- D. Only b

**Q20. When 2 background colors B1 and B2 are mixed with foreground color F, the resulting pixel color P is**

- A.  $P=t_0 * F-t_1 * B_1+(1-t_0-t_1)B_2$
- B.  $P=t_0 * F+t_1 * B_1+(1-t_0-t_1)B_2$
- C.  $P=t_0 * F+t_1 * B_1+(1+t_0+t_1)B_2$
- D. Only b**

**Q21. The choice between a bundled attribute or an unbundled attribute is made by**

- A. Setting bundle table
- B. Index table
- C. Setting switch
- D. Only c**

**Q22. A poly-line that is assigned a table index value of 3 would be displayed using**

- A. Same index
- B. Dotted line
- C. Dashed line**
- D. All of the mentioned

**Q23. A particular text index value is chosen with the function**

- A. `settextindex(ti)`
- B. `setTextIndex(ti)`**
- C. `setTextIndex()`
- D. `SetTextIndex(ti)`

**Q24. Which of the following is the basic attribute of a character?**

- A. Font
- B. Orientation
- C. Size and color
- D. All of the mentioned**

**Q25. When a character string is to be displayed, the which color is used to set the pixel value in frame buffer?**

- A. White color
- B. Black color
- C. Current color**
- D. Any color

**Q26. The Character size is specified by**

- A. Compositors
- B. Printers
- C. Frame buffer
- D. Both a and b**

**Q27. A function that allows the user to select a particular character to be as marker symbol is**

- A. `SETMARKER()`
- B. `setMarkersymbol(mt)`
- C. `setmarkertype (mt)`
- D. `setMarkerType (mt)`**

**Q28. Is it possible to have hardware as character generator?**

- A. True**
- B. False

**Q29. Why aren't camcorder CG used more frequently in the titler market?**

- A. They don't record for longer time period
- B. They have low storage capacity**
- C. They are not economically feasible
- D. They use a background of video for title super imposition

**Q30. How many Methods of character generations are there?**

- A. 2
- B. 3**
- C. 4
- D. 5

**Q31. Which method of character generation is also called Dot-matrix method?**

- A. Starbust method
- B. Stroke method
- C. Bitmap method**
- D. There isn't that type of method

**Q32. In which method, graph is used in form of line to line?**

- A. Starbust method
- B. Bitmap method
- C. Stroke method**
- D. Dot-matrix method

**Q33. Which method has the poorest character quality?**

- A. Starbust method**
- B. Stroke method
- C. Bitmap method
- D. Dot-matrix method

**Q34. We can think a line as a \_\_\_\_\_ in the grid.**

- A. Parallelogram
- B. Circle
- C. Rectangle**
- D. Triangle

**Q35. What is lower bound on the sampling rate known as?**

- A. Sampling rate
- B. Syquist rate
- C. Nyquist rate**
- D. Hartley rate

**Q36. Which of the following is NOT a type of area sampling?**

- A. Anti-aliasing
- B. Weighted area sampling
- C. Unweighted area sampling
- D. Point sampling**

**Q37. What happens to intensity if an area of overlapping increases?**

- A. Intensity remains same
- B. Intensity decreases
- C. Can't say anything
- D. Intensity increases**

**Q38. What is the effect of weighted area sampling on adjacent pixels?**

- A. Contrast is increased
- B. Contrast is decreased**
- C. Intensity is decreased
- D. Intensity is increased

**Q39. What is the name of the effect that causes different signals to become indistinguishable**

- A. Sampling
- B. Staircase effect
- C. Aliasing**
- D. Anti-aliasing

**Q40. The basic geometric transformations are**

- A. Translation
- B. Scaling
- C. Rotation
- D. All of the mentioned**

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