

Sample Question Paper

Class:-S.Y.B.Sc.(IT) Subject:Computer Graphics Design & Animation

1. The standard aspect ratio for PC is

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

2.The brightness of a display is controlled by varying the voltage on the

- A. Focusing
- B. Connection pins
- C. Control grid
- D. All of these

3.The fundamental geometric transformations are

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

4.Which one is non-emissive device?

- A. Thin-film electroluminescent displays
- B. Liquid -Crystal displays
- C. Light-emitting diode
- D. Gas-discharge displays

5.The algorithm that fills interior boundary regions are referred to as

- A. Fill algorithm
- B. Flood Fill algorithm
- C. Seed Fill algorithm
- D. Ordered Edge list algorithm

6.Which method is used multiple intensity levels to obtain visual resolution.

- A. Antialiasing
- B. Patterning
- C. Bi-level display technique

D. Ordered dither

7. One image is transformed to another image is called

- A. Kinematic
- B. Morphing
- C. Tweening
- D. Vector Drawing

8. DDA stands for _____

- A. Digital difference analyzer
- B. Direct differential analyzer
- C. Digital differential analyzer
- D. Data difference analyzer

9. To run graphics we require the following header file

- A. iostream
- B. conio
- C. graphics
- D. dos

10. Heat supplied to the cathode by directing a current through a coil of wire is called

- A. Electron gun
- B. Electron beam
- C. Filament
- D. Anode and cathode

11. Liang–Barsky algorithm is a _____ clipping algorithm.

- a) circle
- b) text
- c) line
- d) pixel

12. Find out final co-ordinate of a figure bounded by co-ordinate A(2,1), B(2,3), C(4,2), D(4,2) with scale factor

$S_x = S_y = 3$.

- A. A(6,3), B(6,9), C(6,12), and D(12,6)

B. A(6,3), B(6,9), C(6,12), and D(6,12)

C. A(6,3), B(6,9), C(12,6), and D(12,6)

D. A(6,3), B(9,6), C(12,6), and D(6,12)

13. The two-dimensional translation equation in the matrix form is

A. $P' = P + T$

B. $P' = P - T$

C. $P' = P * T$

D. $P' = p$

14. Which of the following color models are used for color printing?

A. RGB

B. CMY

C. CMYK

D. CMY and CMYK

15. The algorithm of hidden surface are:

A. Object Space Method

B. Image space method

C. Both a and b

D. None of these

16. Ray-tracing is an extension of

A. Ray calling

B. Ray casting

C. Ray sampling

D. Ray coherence

17. A polygon in which the line segment joining any 2 points within the polygon lies completely inside the polygon is called ___?

A. convex polygon

B. concave polygon

C. both (a) and (b)

D. none of these

18. TIFF used for

A. Vector graphics

B. Bitmap

- C. Both A & B
- D. None

19. **Dave is animating a ball moving with slight changes on each frame. What type of animation is being used?**

- A. Vector
- B. Scenes
- C. Frames Per Second
- D. Frame-based animation

20. **GIF stands for**

- A. Global Image Format
- B. Graphics Interchange Format
- C. Graphics Image Format
- D. None of the above

21. **Which of the following is not a type of perspective projection_____.**

- A. Isometric
- B. One point
- C. Two point
- D. Three point

22. **Three types of axonometric projections are _____, _____, _____**

- A. Serial , Parallel, isometric
- B. Paralle, Perspective , Isometric
- C. Isometric, dimetric, trimetric
- D. None of these

23. **Hue and saturation, both together produce_____.**

- A. Brightness
- B. Transitivity
- C. Chromaticity
- D. Reflectivity

24. In perspective projection object is away from the view plane will appear :

- A. Small
- B. Same size
- C. Large
- D. Very large

25. Two Basic ways of projecting objects onto the view plane are _____ and _____ - .

- A. Serial, Parallel
- B. Serial, Perspective
- C. Parallel, Perspective
- D. None of these

