

# Online Assessment (Special Examination) (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Computer Graphics

Course Code -BCSE403

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Answer all the questions. Each question carry one mark.

9. 1. The phenomenon of having a continuous glow of a beam on the screen even after it is removed is called a

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- fluorescence
- persistence
- phosphorescence
- incandescence

10. 2. The graphics can be

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- Drawing
- Photograph, movies
- Simulatio
- All of these

11. 3. Vector graphics is composed of

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- Pixels
- Paths
- Palette
- None of these

12. 4. Raster images are more commonly called

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- Pix map
- bitmap
- both Pix map & bitmap
- None of these

13. 5. Each pixel has \_\_\_\_\_ basic color components.

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- Two or three
- One or two
- Three or four
- None of these

14. 6. Higher the number of pixels, \_\_\_\_\_ the image quality.

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- Bad
- Better
- Smaller
- None of these

15. 7. A bitmap is ..... bit(s) per pixels.

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- 0
- 1
- 2
- 3

16. 8. To minimize eyestrain, you should adjust your monitor to a degree angle of

*Mark only one oval.*

- 5
- 10
- 90
- 15

17. 9. Refresh rate is measured in

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- mbps
- hertz
- kilo hertz
- mega hertz

18. 10. Sequencing and display of a set of images to create a visual change effect is called

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- Computer animations
- Computer graphics
- Computer videography
- Computer image terminals

19. 11. Expansion of line DDA algorithm is

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- Digital difference analyzer
- Direct differential analyzer
- Digital differential analyzer
- Data differential analyzer

20. 12. An accurate and efficient raster line-generating algorithm is

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- DDA algorithm
- Mid-point algorithm
- Parallel line algorithm
- Bresenham's line algorithm

21. 13. If we want to recolor an area that is not defined within a single color boundary is known as

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- Boundary-fill algorithm
- Parallel curve algorithm
- Flood-fill algorithm
- None of these

22. 14. In Bresenham's algorithm error term is initialized to ?

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- 0
- 1
- 1/2
- None of these



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

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- Linear search
- Binary search
- Heap sort
- Bubble sort

24. 16. Let R be the radius of a circle. The angle subtended by an arc of length R at the center of the circle is ?

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- 1 degree
- 1 radian
- 45 degree
- None of these

25. 17. Aspect ratio is generally defined as the ratio of the?

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- Vertical to horizontal points
- Horizontal to vertical points
- Vertical to (horizontal + vertical) points
- Either Vertical to horizontal points or Horizontal to vertical points, depending on the convention followed

26. 18. The maximum number of points that can be displayed without overlap on a CRT is referred to as?

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- Resolution
- Persistence
- Attenuation
- None of these

27. 19. In Bresenham's circle generation algorithm, if  $(x,y)$  is the current pixel position then the  $y$  value of the next pixel position is

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- $Y$  or  $y+1$
- $y$  alone
- $y+1$  or  $y-1$
- $y$  or  $y-1$

28. 20. Aliasing means

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- Rendering effect
- Shading effect
- Staircase effect
- None of these

29. 21. Flood fill algorithm cannot be applied if

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- More than one boundary colour
- More than one interior colour
- Single boundary colour
- Single interior colour

30. 22. CMY coordinates of a colour at (0.2, 1, and 0.5) in the RGB space are

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- (1.2,2,1.5)
- (2.2,2,2.5)
- (0.8,0,0.5)
- (0.1,0.5,0.25)

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

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- $P' = P + T$
- $P' = P - T$
- $P' = P * T$
- $P' = p$

32. 24. \_\_\_\_\_ is a rigid body transformation that moves objects without deformation.

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- Rotation
- Scaling
- Translation
- All of the mentioned

33. 25. The rotation axis that is perpendicular to the xy plane and passes through the pivot point is known as

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- Rotation
- Translation
- Scaling
- Shearing

34. 26. The original coordinates of the point in polar coordinates are

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- $X'=r \cos (\Phi +\Theta)$  and  $Y'=r \cos (\Phi +\Theta)$
- $X'=r \cos (\Phi +\Theta)$  and  $Y'=r \sin (\Phi +\Theta)$
- $X'=r \cos (\Phi -\Theta)$  and  $Y'=r \cos (\Phi -\Theta)$
- $X'=r \cos (\Phi +\Theta)$  and  $Y'=r \sin (\Phi -\Theta)$

35. 27. If the scaling factors values  $s_x$  and  $s_y < 1$  then

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- It reduces the size of object
- It increases the size of object
- It stunts the shape of an object
- None of these

36. 28. What are the types of polygon

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- Convex polygon
- Concave polygon
- Both Convex polygon & Concave polygon
- None of these

37. 29. Two types of coordinates are

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- Positive and negative coordinates
- Absolute and relative coordinates
- Both (Positive and negative coordinates) & (Absolute and relative coordinates)
- None of these

38. 30. The transformation that disturbs the shape of an object are called

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Reflection

Shear

Rotation

Scaling

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