



قائمة الاسئلة 2025-04-19 07:02

الرسم بالحاسوب-(123205)-الثالث-رياضيات-حاسوب-كلية العلوم-درجة الامتحان(30)

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- 1) Which of the following statements define Computer Graphics?
 - 1) - a) It refers to designing plans
 - 2) - b) It means designing computers
 - 3) + c) It refers to designing images
 - 4) - d) None of the mentioned
- 2) Which of the following are the features of Computer Graphics?
 - 1) - a) Creation and deletion of images by computer only
 - 2) - b) Deletion and manipulation of graphical images by computer
 - 3) + c) Creation and manipulation of graphics by computer
 - 4) - d) Creation of artificial images by computer only
- 3) Which of the following is a Computer Graphics type?
 - 1) + a) Raster and Vector
 - 2) - b) Raster and Scalar
 - 3) - c) Scalar only
 - 4) - d) All of the above
- 4) Which of the following plane is used for 2D transformations?
 - 1) - a) Three-dimensional plane
 - 2) + b) Two-dimensional plane
 - 3) - c) One-dimensional plane
 - 4) - d) Four-dimensional Plane
- 5) The transformation that is used to alter the size of an object is
 - 1) + a) Scaling
 - 2) - b) Rotation
 - 3) - c) Translation
 - 4) - d) Reflection
- 6) Bitmap is a collection of _____ that describes an image.
 - 1) + a) pixels
 - 2) - b) algorithms
 - 3) - c) bits
 - 4) - d) colors
- 7) Which of the following is defined as the number of pixels stored in the frame buffer of a graphics system?
 - 1) - a) Resolution
 - 2) + b) Resolution
 - 3) - c) Depth
 - 4) - d) None of the mentioned
- 8) Which of the following is a primary output device of a graphics system?
 - 1) - a) Printer
 - 2) - b) Scanner
 - 3) + c) Video monitor
 - 4) - d) Neither Scanner nor Video monitor
- 9) Which of the following is used in graphics workstations as input devices to accept voice commands?
 - 1) + a) Speech recognizers
 - 2) - b) Touch panels
 - 3) - c) None of the mentioned
 - 4) - d) All of the mentioned





- 10) Among the following process, which process is known as the elimination of parts of a scene outside a window or a viewport?
- 1) - a) editing
 - 2) - b) plucking
 - 3) - c) cutting
 - 4) ☒ d) clipping
- 11) How many axes do 3D graphics consist of?
- 1) - a) Two axes
 - 2) ☒ b) Three axes
 - 3) - c) Five axes
 - 4) - d) One axis
- 12) Which of the following is commonly known as frame buffer on a black and white system with one bit per pixel?
- 1) ☒ a) Bitmap
 - 2) - b) Pix map
 - 3) - c) Multi map
 - 4) - d) All of the mentioned
- 13) Which of the following algorithm is a faster method for calculating pixel positions?
- 1) - a) Parallel line algorithm
 - 2) - b) Mid-point algorithm
 - 3) ☒ c) DDA line algorithm
 - 4) - d) Bresenham's line algorithm
- 14) Which of the following is used for 3D positioning and modeling, animation, and other application?
- 1) - a) Spac ball
 - 2) - b) Trackball
 - 3) ☒ c) Space ball
 - 4) - d) All of the mentioned
- 15) Which of the following can be used to determine the position on the data tablet?
- 1) ☒ a) Either Signal strength or coded pulse
 - 2) - b) Coded pulse
 - 3) - c) Signal strength
 - 4) - d) Strip microphones
- 16) Which of the following representation represents a three-dimensional object?
- 1) - a) Function
 - 2) - b) Point
 - 3) - c) Polygon
 - 4) ☒ d) Equation
- 17) Which of the following is not a type of area sampling?
- 1) ☒ a) Point sampling
 - 2) - b) Weighted area sampling
 - 3) - c) Anti-aliasing
 - 4) - d) Unweighted area sampling
- 18) Which of the following device is designed to minimize the background sound?
- 1) - a) Joystick
 - 2) - b) Data glove
 - 3) ☒ c) Microphone
 - 4) - d) Digitizers
- 19) The Cartesian slope-intercept equation for a straight line is
- 1) ☒ a) $y = m.x + b$



- 2) - b) $y = b.x + m$
3) - c) $y = x.x + m$
4) - d) $y = b + m.m$
- 20) For lines with slope magnitude $|m| < 1$, x can be _____
1) - a) A set corresponding vertical deflection
2) ☒ b) A set proportional to a small horizontal deflection voltage
3) - c) Only a
4) - d) All of the mentioned
- 21) On raster system, lines are plotted with
1) - a) Lines
2) - b) Dots
3) ☒ c) Pixels
4) - d) None of the mentioned
- 22) Expansion of line DDA algorithm is
1) - a) Digital difference analyzer
2) - b) Direct differential analyzer
3) ☒ c) Digital differential analyzer
4) - d) Data differential analyzer
- 23) The disadvantage of line DDA is
1) ☒ a) Time consuming
2) - b) Faster
3) - c) Neither a nor b
4) - d) None of the mentioned
- 24) An accurate and efficient raster line-generating algorithm is
1) - a) DDA algorithm
2) - b) Mid-point algorithm
3) - c) Parallel line algorithm
4) ☒ d) Bresenham's line algorithm
- 25) In Bresenham's line algorithm, if the distances $d1 < d2$ then decision parameter P_k is _____
1) - a) Positive
2) - b) Equal
3) ☒ c) Negative
4) - d) Option a or c
- 26) Which is the best line algorithm to balance the processing load among the processors?
1) ☒ a) Parallel line algorithm
2) - b) DDA line algorithm
3) - c) Bresenham's line algorithm
4) - d) Position Bresenham's line algorithm
- 27) The algorithm which uses multiple processors to calculate pixel positions is
1) - a) Midpoint algorithm
2) ☒ b) Parallel line algorithm
3) - c) Bresenham's line algorithm
4) - d) All of the mentioned
- 28) Coordinate references in the polyline function are stated as
1) - a) Relative coordinate values
2) ☒ b) Absolute coordinate values
3) - c) Current position
4) - d) Real coordinate values
- 29) To apply the midpoint method, we define





- 1) ☒ a) circle(x,y)=x²+y²-r²
- 2) ☐ b) circle(x,y)=x+y²-r²
- 3) ☐ c) circle(x,y)=x²-y²-r²
- 4) ☐ c) circle(x,y)=x²-y²-z²
- 30) _____ is defined as set of points such that the sum of the distances is same for all points.
- 1) ☐ a) Ellipses
- 2) ☐ b) Lines
- 3) ☐ c) Circles
- 4) ☒ d) Only a