

1
Tests, Surveys and Pools Tests

Test Canvas : END TERM EXAM 2020 Edit Mode is: • ON ?

This Test has 13 attempts. For information on editing questions, click More Help below.

## Test Canvas: END TERM EXAM 2020

The Test Canvas lets you add, edit and reorder questions, as well as review a test. More Help

|  |  |  |  | Question Settings |
| :---: | :---: | :---: | :---: | :---: |
| You can edit, delete or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes. |  |  |  |  |
| Description $\begin{aligned} & 1 . \\ & \\ & \end{aligned}$ | 1. Total no. of questions=40. |  |  |  |
| Instructions 1. Attempt all Questions. <br>  2. No negative marking. |  |  |  |  |
| Total Questions 40 |  |  |  |  |
| Total Points 100 |  |  |  |  |
| Number of Attempts 13 |  |  |  |  |
| Select: All None Select by Type: - Question Type - V |  |  |  |  |
| Delete and Regrade | Points | Update and Regrade | Hide Question Details |  |
| $\square$ 1. Multiple Choice: Q1.: Types of computer graphics are......... Points: 1 |  |  |  |  |
| Question Types of computer graphics are....... |  |  |  |  |
| Answer a. Vector and raster |  |  |  |  |
| b. Scalar and raster |  |  |  |  |
| c. Vector and scalar |  |  |  |  |
| d. None of these |  |  |  |  |2. Multiple Choice: Q2.: "Higher the number of pixels,

Question "Higher the number of pixels,............. The image quality."
Answer
a. Bad
b. Better
c. Smaller
d. None of above

## 3. Multiple Choice: Q3.: Random scan systems are designed for ..

| Question | Random scan systems are designed for |
| :--- | :--- |
| Answer | a. Line drawing application |

b. Pixel drawing application
c. Color drawing application
d. None of these4. Multiple Choice: Q4.: How many types of polygon filling /*...

| Question | How many types of polygon filling |
| :--- | :---: |
| Answer | a. Two |
| b. One |  |
| c. Three |  |
| d. Four |  |

## 5. Multiple Choice: Q5.: The algorithm used for filling the in...

Question | The algorithm used for filling the interior of a polygon is called |
| :--- |
| Answer |
| a. Flood fill algorithm |
| c. Boundary fill algorithm |
| d. None of these |

## 6. Multiple Choice: Q6.: The function of scan line polygon fil...

Question
Answer
The function of scan line polygon fill algorithm are
b. Find intersection point of the boundary of polygon and point
c. Both a \& b
d. None of these

## 7. Multiple Choice: Q7.: If the pixel is already filled with d...

Question If the pixel is already filled with desired color then leaves it otherwise fills it.this is called
Answer
a. Flood fill algorithm
c. Scan line polygon fill algorithm
d. None of these8. Multiple Choice: Q8.: Bresenham circle algorithm uses the a...
Question Bresenham circle algorithm uses the approach of
Answer
(7) a. Midpoint
b. Point
c. Line
d. None of these9. Multiple Choice: Q9.: "In line clipping, the portion of lin...
Question
Answer
"In line clipping, the portion of line which is ............. Of window is cut and the portion that is the window is kept."
b. "inside, outside"
c. "exact copy, different "
d. "different, an exact copy"10. Multiple Choice: Q10.: $\qquad$ Is a basic approach used ...
........ Is a basic approach used to fill the poly

Answer
a. seed fill
b. scan fill
C. c. A and B
d. None fo these11. Multiple Choice: Q11.: The process of selecting and viewing ...

The process of selecting and viewing the picture with different views is called
Answer
a. Clipping
b. Windowing
c. Segmenting
d. All of above12. Multiple Choice: Q12.: Mapping the world co-ordinates into p..

| Question | Mapping the world co-ordinates into physical device co-ordinates is called |
| :--- | :--- |
| Answer | a. translation |
| b. homogeneous transformation |  |
| c. co-ordinate conversion |  |

( d. Viewing transformation13. Multiple Choice: Q13.: "In Cohen- Sutherland subdivision lin...

| Question | Cohen- Sutherland subdivision line clipping algorith |
| :---: | :---: |
| Answer | a. end point of line is to the left of the window |
|  | b. end point of line is to the right of the window |
|  | (- c. end point of line is to the below of the window |
|  | d. end point of line is to the above of the window |14. Multiple Choice: Q14.: "In sutherland - Hodgeman polygon cli...


| Question | "In sutherland - Hodgeman polygon clipping algorithm, if both vertices of the edge are outside the window boundary ..............Is added to <br> the output vertex list." <br> Answer <br> first vertex |
| :--- | :--- |
| Second vertex |  |
| the intesection point of the polygon edge with the window boundary. |  |
| None of these. |  |15. Multiple Choice: Q15.: The slope of the Bezier curve at star..


| Question |
| :--- |
| Answer The slope of the Bezier curve at start of the curve of is controlled by <br> b. First two control points  <br> c. First three control points  <br> d. All four control points  |16. Multiple Choice: Q16.: Z-buffer algorithm is used for /**/ ...

Question Z-buffer algorithm is used for
Answer
a. Frame buffer removal
b. Hidden line removal
c. Rendering
d. Animation
Answer
a. partially invisible
(b. completely visible
c. trivially visible
d. completely invisible18. Multiple Choice: Q18.: What is name of temporary memory wher..

Question | What is name of temporary memory where the graphics data is stored to be displayed on screen |
| :--- | :--- |
| a. RAM |
| b. ROM |
| c. Frame buffer |
| d. None |19. Multiple Choice: Q19.: The algorithm of hiddem surface are ...

| Question | The algorithm of hiddem surface are |
| :--- | :--- |
| Answer | a. Object-space method |
|  | b. Image-space method |
| c. Both a \& b |  |
| d. None of these |  |20. Multiple Choice: Q20.: The types of hidden surface removal a...

The types of hidden surface removal algorithm are document.oncopy = new Function("return false"); document.onpaste = new Function("return false"); document.onselectstart = new Function("return false"); document.oncontextmenu = new Function ("return false");

Answer
a. "Depth comparison, Z-buffer, back-face removal"
b. "Scan line algorithm, priority algorithm"
c. "BSP method, area subdivision method"
d. All of these21. Multiple Choice: Q21.: The Bezier curve obtained from the fo...

| Question | The Bezier curve obtained from the four control points is called a |
| :--- | :--- |
| Answer | a. Square Bezier curve |
| b. Cubic Bezier curve |  |
| c. Hectare Bezier curve |  |
| d. Rectangle Bezier curve |  |22. Multiple Choice: Q22.: A Shading Model /**/ document.oncop...

Question
Answer
a Shading Model
b. uses the intensity calculations to determine the light intensity.
c. scattered light from a rough surface
d. light source creating highlights on bright spots
23. Multiple Choice: $Q 23$. If ( $x, y, w$ ), $w=0$, is a point in the ho...

Question If $(x, y, w), w=0$, is a point in the homogeneous coordinate system than its equivalent in the two dimensional system is
Answer
a. " $(x, y, 1)$ "
b. " $(x, y, 0)$ "
c. "(x/w, y/w)"
d. "(x,y,x-y)"24. Multiple Choice: Q24.: "In which of the following shading mo...

Question $\quad$ "In which of the following shading models of polygons, the interpolation of intensity values is done along the scan line?"
Answer
a. Gouraud Shading
b. Phong shading
c. Constant shading
d. Flat shading
25. Multiple Choice: Q25.: Which of the following is not an illu...

Question Which of the following is not an illumination model.
Answer
a. Constant Intensity Shading
b. Gouraud shading
c. Phong shading

Q d. Warn model

| Question | Which shading is accurate and slow when interpolates the |
| :--- | :--- |
| Answer | a. Constant Intensity Shading |

b. Gouraud shading
(7) Phong shading
d. Warn model27. Multiple Choice: Q27.: A flat and simple method for renderin...
Question
Answer
a. Flat and simple method for rendering an object with polygon surface.
b. Gouraud shading
c. Phong shading
d. Fast Fong shading

## 28. Multiple Choice: Q28.: Disadvantages of Bezier curves are /...

```
Question Disadvantages of Bezier curves are
Answer a. The degree of the Bezier curve depends on the number of control points.
b. The Bezier curve lacks control point.
    c. "Points have ""influence"" over the course of the line"
    d. The first and last control points are interpolated
```29. Multiple Choice: Q29.: Which line algorithms are identical ...
\begin{tabular}{|ll}
\hline Question & Which line algorithms are identical \\
Answer & a. DDA \& Bresenham's \\
c. DDA \& midpoint \\
d. None of above &
\end{tabular}
30. Multiple Choice: Q30.: Composite transformation are formed a...

Question Composite transformation are formed as
Answer a. Addition of any combination of translation. Scaling \& rotation matrix
- b. Multiplication of any combination of translation. Scaling \& rotation matrix
c. Both a \& b
d. Multiplication of any combination of scaling

Question \(\quad\) What will be the value of initial decision parameter if we intend to draw a line between \(A(3,6)\) and \(B(4,9)\) using Bresenham's algorithm?"
Answer
a. 6
(b. 5
c. 3
d. None of these32. Multiple Choice: Q32.: "Given a square with coordinate point...

Question \(\quad\) "Given a square with coordinate points \(A(0,3), B(3,3), C(3,0), D(0,0)\). Apply the translation with distance 1 towards \(X\) axis and 1 towards \(Y\) axis. Obtain the new coordinates of the square."

Answer
a. " \(A(2,4), B(3,4), C(1,1), D(1,2) . "\)
b. "A (1, 4), B(4, 4), C(4, 1), D(1, 1)."
c. " \(A(4,4), B(4,4), C(1,1), D(2,1)\)."
d. " \(A(1,4), B(3,4), C(2,1), D(1,1) . "\)33. Multiple Choice: Q33.: "A Point has coordinates \(\mathbf{P}(2,3,4)\)...
```

Question "A Point has coordinates P (2, 3,4) in x, y, z-direction. The Rotation angle is 90 degrees. Apply the rotation in x, y, z direction, and find out
the new coordinates of the point?"
Answer () a. "(3,2,4)"
b. "(2,2,4)"
c. "(1,2,3)"
d. "(1,6,7)"

```
34. Multiple Choice: Q34.: "Suppose a B'ezier curve \(C(u)\) is defi...

Question "Suppose a B'ezier curve \(C(u)\) is defined by the following four control points in the xy-plane: \(P 0=(2,0), P 1=(2,4), P 2=(2,4)\) and \(P 3=(2\), \(0)\). What is the degree of \(\mathrm{C}(\mathrm{u})\) ?"

Answer
a. 4
(b. 3
c. 2
d. 135. Multiple Choice: Q35.: The Liang-Barsk...

The Liang-Barsky line clipping algorithm uses the parametric equation of a line from ( \(x 1, y 1\) ) to ( \(x 2, y 2\) ) along with its infinite extension which is given as :
\(x=x 1+\Delta x . u\)
\(y=y 1+\Delta y . u\)
Where \(\Delta x=x 2-x 1, \Delta y=y 2-y 1\), and \(u\) is the parameter with \(0 \leq u \leq 1\). A line \(A B\) with end points \(A(-1,7)\) and \(B(11,1)\) is to be clipped against a rectangular window with \(x \min =1, x \max =9, y \min =2\), and \(y \max =8\). The lower and upper bound values of the parameter \(u\) for the clipped line using Liang-Barsky algorithm is given as :

Answer a.
\[
(0,2 / 3)
\]
b. \((1 / 6,5 / 6)\)
c. \((0,1 / 3)\)
d. \((0,1)\)36. Multiple Choice: Q36.: Given a circle \(C\) with radius 10 and \(c .\).
Question \begin{tabular}{l} 
Given a circle C with radius 10 and center coordinates (1, 4). Apply the translation with distance 5 towards X axis and 1 towards Y axis. \\
Obtain the new coordinates of C without changing its radius. \\
Answer \\
a. \((6,5)\) \\
b. \((4,3)\) \\
c. \((5,6)\)
\end{tabular}
d. \((4,4)\)37. Multiple Choice: Q37.: Given a 3D triangle with points ( \(0,0 .\).
Question \begin{tabular}{l} 
Given a 3 D triangle with points \((0,0,0),(1,1,2)\) and \((1,1,3)\). Apply shear parameter 2 on \(X\) axis, 2 on \(Y\) axis and 3 on \(Z\) axis and find out \\
the new coordinates of the object. \\
Answer \\
a. \(A(0,0,0), B(5,4,2), C(5,6,3)\). \\
b. \(A(0,0,0), B(3,4,2), C(6,7,2)\). \\
c. \(A(1,0,0), B(2,5,2), C(7,6,3)\). \\
d. \(A(0,0,0), B(5,5,2), C(7,7,3)\).
\end{tabular}

\section*{38. Multiple Choice: Q38.: Liang Barsky algorithm uses the ...}
\begin{tabular}{|ll}
\hline Question & Liang Barsky algorithm uses the .............. equations for a line and solves four inequalities. \\
Answer & a. linear \\
b. Quadratic \\
c. Cubic \\
d. Parametric
\end{tabular}

\section*{39. Multiple Choice: Q39.: Which type of arithmetic is used in L...}

Question Which type of arithmetic is used in Liang Barsky algorithm?

Answer
a. simple arithmetic operations
b. floating point arithmetic
c. fixed point arithmetic
d. logarithmic operations40. Multiple Choice: Q40.: Which transformation distorts the sha...
\begin{tabular}{ll} 
Question & \begin{tabular}{l} 
Which transformation distorts the shape of an object such that the transformed shape appears as if the object \\
were composed of internal layers that had been caused to slide over each other?
\end{tabular} \\
Answer & a. Rotation \\
b. Scaling up \\
c. Scaling down
\end{tabular}

Select: All None Select by Type: - Question Type - V
Delete and Regrade Points \(\square\) Update and Regrade Hide Question Details```

