# CS-602 Mcqs Midterm
# By Vu Topper RM
# For Help = 03224021365 , 03164980094




بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

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In display mode 3, out of two bytes for each character on screen, one contains ASCII value while other contains _____.

**A. Attribute**
B. Graphics
C. Pixels
D. Resolution

_____ are responsible to send picture data to monitor.

A. Graphics
**B. Video Cards**
C. Flicker
D. Memory

Bresenham's algorithm finds the closest integer coordinates to the actual line, using only _____.

A. Step = |dx
**B. Integer math**
C. Step = |dx|+|dy|
D. Floating Poin

These are computer graphics packages for art and design except ----------.

A. Pixel Paint
B. Super Paint
**C. Link paint editor**
D. Artist's paint brush

Twice the radius of circle is called as _____.

A. Area
B. Circumference
C. 2*Pi Radian

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**D. Diameter**

In line drawing procedure, _____representation allows a method for performing calculations using only integer arithmetic.

A. Double
**B. Fixed Point**
C. Circle
D. Quick

_____ is the set of points that are equidistant from its origin.

A. Ellipse
**B. Circle**
C. Line
D. Parabola

2π radians is equivalent to _____.

A. 180°
**B. 360°**
C. 270°
D. 90°

EGA and VGA_____have a character generator ROM.

A. Can
**B. Do**
C. Do not
D. Must

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Monochrome adapter can display _____.

A. Only Graphics
B. Text and Graphics
**C. Only Text**
D. Only Games

Tomography technique belongs to ---------- area of computer graphics.

A. Art & Design
B. Interactive 3D environment
C. Cultural Heritage
**D. Medicine & virtual surgery**

In Raster-Scan display process, characters can be defined by rectangular grid or by _____method.

A. Grid of pixel positions
**B. Curved outlines**
C. Frame buffer
D. Array size

In midpoint circle drawing function, if fcircle (x, y)>0, then (x,y) point lies _____ circle boundary.

A. On
B. xk position of
C. Inside
**D. Outside**

_____is the flurry of bright dots that can appear anywhere on the screen.

A. EGA
B. Phosphor
**C. Snow**

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D. Flicker

Two different lines can intersect in at most one point; whereas two different planes can intersect in at most_____.

A. Three points
B. N-point
**C. One line**
D. Two end points

It is safe to assume that all raster-type monitors can accept the same input

**False**
True

In Raster-Scan display process, purpose of display processor is to free CPU from _____.

A. Computation chores
B. Digital memory allocation
**C. Graphics chores**
D. Task allocation chores

Graphic images on the screen are built up from tiny dots called_____.

A. Resolution
B. Pixdot
C. Snow
**D. Picture elements**

Plasma-panel Displays use a gas mixture and phosphorus coating for showing display.

**True**


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False

In CRT, (3 / 4) aspect ratio represents that _____ point vertical line has same length as _____ point horizontal line respectively.

**A. Three, Four**
B. 3/4, Solid
C. Four, Three
D. Solid, 0.7

In Raster-Scan System, the bitmap buffer can store _____ image.

A. Black and White
B. Colored
C. Horizontal Retrace
**D. Bitmap**

Hercules adapter can display_____.

A. Only Text
B. Only Games
C. Only Graphics
**D. Text and Graphics**

Identify the best Circle drawing technique from below mentioned options.

A. Polar Coordinates algorithm
B. DDA algorithm
C. Cartesian Coordinates algorithm
**D. Bresenham's algorith**

Identify the disadvantage of LCD from given options.

A. No Electromagnetic Emission
**B. Low Luminance**


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C. Crisp Picture
D. Small Footprint

_____ memory is required for higher resolution.
**A. More**
B. Low
C. 2 GB
D. 500 M

Drawing Circle using Cartesian coordinates is inefficient as it creates large gaps in circle for values of x _____.
**A. Far from Radius**
B. Close from Root
C. Close to Radius
D. Close to Polar Coordinates

VRAM is capable of reading and writing simultaneously due to the_____.
**A. Dual port design**
B. Mouse
C. Flicker
D. UMA

Interlacing the horizontal refresh ----------
A. Is no longer used in any system
**B. Fools the human eye into thinking the horizontal refresh rate is faster**
C. Is necessary because of the shape of the rods in the human eye
D. Is distracting and can cause eye fatigue

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To rotate the x component of any point, the equation of rotation will be:

A. xsin(angle)+ycos(angle)
B. xcos(angle)+ysin(angle)
**C. xcos(angle)-ysin(angle)**
D. ycos(angle)-xsin(angle)

( x^2 / a^2 ) – ( y^2 / b^2 ) = 1 is an equation of _____.

A. Parabola
B. Ellipse
C. Circle
**D. Hyperbola**

In composite scaling, what will be the final size if we triple the size of an object twice in succession in matrix.

A. 6 times than original
**B. 9 times than original**
C. 12 times than original
D. 3 times than origin

Only the points on the perimeter of polygon are drawn when _____polygon is rendered.

A. Boundary fill
B. Scan-line
**C. Unfilled**
D. Filled

Matrix addition can be done if two matrices have the same number of _____ and _____.

A. Dimension, Vectors
B. Vectors, Rows

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**C. Rows, Columns**
D. Columns, Transpose

In Trivial acceptance/reject test there are four bits of nine regions, Bit1 represents condition _____.

**A. Outside half plane of right edge, to the right of right edge X > Xmax**
B. Outside half plane of top edge, above top edge Y > Ymax
C. Outside half plane of bottom edge, below bottom edge Y < Ymin
D. Outside half plane of left edge, to the left of left edge X < Xmin

An ellipse keeps two axis termed as_____-axis and _____ -axis.

A. Old, New
B. Small, Big
C. Left, Right
**D. Major, Minor**

_____is an area fill algorithm that replaces all connected pixels of selected color with fill color.

**A. Flood-fill**
B. Complex
C. Foci
D. Concave

In translation every point on the object is translated by the _____.

A. Right angle
**B. Same amount**
C. 90 degrees
D. Force

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An ellipse rotated about its minor axis gives an _____spheroid.

A. Radio
**B. Oblate**
C. Foci
D. Prolate

In Polygon Parity test, if number of polygon edges crossed is _____ the Point 'P' lies within polygon.

A. Complex
B. Even
**C. Odd**
D. Zero

_____is a collection of numbers arranged into a fixed number of rows and columns.

A. Square
**B. Matrix**
C. Oval
D. Cube

Identify the equation of composite rotation in matrix.

**A. P′ = PR(θ1 + θ2)**
B. P′ = R(θ1 - θ2).P
C. P′ = R(θ1).P
D. P′ = R(θ1 + θ2).P

In an area-fill algorithm, the _____ and _____of neighborhood of given pixel are important.

A. Odd, Even
**B. Size, Connectivity**
C. If, bits

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D. Color, size

When reflection axis is a line in the xy plane; rotation path about this axis is in a plane _____ to xy plane.

A. Forward
**B. Parallel**
C. Rotational
D. Perpendicular

What will the given statement "Table table" perform?

A. Statement is incorrect
**B. Creates table instance**
C. Call Table class function
D. Creates Table class

A two dimensional rotation is applied to an object by repositioning it along a _____ path in the XY plane

A. Oval
**B. Circular**
C. Straight
D. Ellipse

_____ transformation distorts the shape of an object.

A. Rotating
**B. Shear**
C. Scaling
D. Moving

To rotate the y component of any point, the equation of rotation will be:

A. xsin(angle)+ycos(angle)
B. xcos(angle)-ysin(angle)


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**C. ycos(angle)-xsin(angle)**
D. xsin(angle)-ycos(angle)

A unit vector has zero magnitude.
**False**
True

There are _____ basic types of polygon.
A. 3
**B. 2**
C. 5
D. 4

We can take transpose of any matrix.
False
**True**

Polygons can be divided into three basic types: convex, _____, and complex.
A. Foci
B. Scan-line
C. Convave
**D. Concave**

The mirror image for a 2D reflection is generated by rotating the object _____ about the reflection axis.
A. 360°
B. 120°
**C. 180°**
D. 190°

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Identify Algorithm that checks and sets pixel for fill color and runs process for neighbors?

A. Check point
B. Middle area
C. Concave
**D. Boundary fill**

In _____ polygon filling technique, the filling is done from interior point towards boundary.

A. Edge
B. Simple
C. Scan-line
**D. Boundary**

When scaling factor Sx and Sy are assigned the same value, _____ scaling is produced that maintains relative object proportions.

A. Unequal
B. Equal
C. Multiform
**D. Uniform**

Both Boundary Filling and Flood filling algorithms are _____ as compared to scan line filling algorithm.

A. Better
B. Almost same
**C. Worse**
D. Good

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