

Cs602-computer graphics
MCQS MIDTERM EXAMINATION
SOLVED BY
~“LIBRIANSMINE”~

Question # 1 of 10 (Start time: 08:04:29 PM) Total Marks: 1

Sutherland-Hodgeman clipping algorithm clips any polygon against a concave clip polygon

Select correct option:

True

False

Question # 2 of 10 (Start time: 08:05:36 PM) Total Marks: 1

There are _____ basic types of polygon.

Select correct option:

2

3

4

5

Question # 3 of 10 (Start time: 08:06:30 PM) Total Marks: 1

Dot product of two vectors result in _____ quantity.

Select correct option:

Scalar

Vectors

Magnitude

Value

Question # 4 of 10 (Start time: 08:07:18 PM) Total Marks: 1

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

Select correct option:

Parabola

Hyperbola

Ellipse

Circle

Question # 5 of 10 (Start time: 08:08:30 PM) Total Marks: 1

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

Select correct option:

Outside half plane of left edge, to the left of left edge $X < X_{min}$

Outside half plane of right edge, to the right of right edge $X > X_{max}$

Outside half plane of bottom edge, below bottom edge $Y < Y_{min}$

Outside half plane of top edge, above top edge $Y > Y_{max}$

Question # 6 of 10 (Start time: 08:09:42 PM) Total Marks: 1

Rotating a point requires

Select correct option:

the coordinates for the point

the rotation angles

Both of above

None of above

Question # 7 of 10 (Start time: 08:10:40 PM) Total Marks: 1

Computer graphics is very helpful in producing graphical representations for scientific visualization.

Select correct option:

True

False

Question # 8 of 10 (Start time: 08:11:02 PM) Total Marks: 1

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

Select correct option:

Uniform

Unequal

Multiform

Question # 9 of 10 (Start time: 08:12:26 PM) Total Marks: 1

A column matrix is also known as _____.

Select correct option:

Column vector

Row vector

Vector

Simple Matrix

Question # 1 of 10 (Start time: 08:17:06 PM) Total Marks: 1

Boundary Filling Algorithm can work for complex polygons.

Select correct option:

True

False

Question # 2 of 10 (Start time: 08:18:02 PM) Total Marks: 1

Various curve functions are useful in _____.

Select correct option:

Object modeling

Graphics applications

Animation path specifications

All of the given

Question # 3 of 10 (Start time: 08:18:51 PM) Total Marks: 1

Both Boundary Filling and Flood filling algorithms are non-recursive techniques.

Select correct option:

True

False

Question # 4 of 10 (Start time: 08:19:57 PM) Total Marks: 1

Shortcoming of Sutherland-Hodgeman Algorithm is concave polygons may be displayed with extensors lines

Select correct option:

True

False

Question # 5 of 10 (Start time: 08:20:42 PM) Total Marks: 1

_____ uses a divide-and-conquer strategy.

Select correct option:

Pipeline Clipping

Sutherland-Hodgeman clipping algorithm

Weiler-Atherton clipping algorithm

None of above

Question # 6 of 10 (Start time: 08:21:25 PM) Total Marks: 1

The actual filling process in boundary filling algorithm begins when a point _____ of the figure is selected.

Select correct option:

Outside the boundary

Inside the boundary

At the boundary

Not in the boundary

Question # 7 of 10 (Start time: 08:22:21 PM) Total Marks: 1

Rotation performed around a fixed point called _____.

Select correct option:

x point rotation

y point rotation

Point of origin

Pivot point rotation

Question # 8 of 10 (Start time: 08:23:15 PM) Total Marks: 1

A _____ is the set of all points (x, y) that are the same distance from the directrix and focus not on the directrix.

Select correct option:

Circle

Hyperbola

Parabola

Ellipse

Question # 9 of 10 (Start time: 08:24:40 PM) Total Marks: 1

Vectors can be multiplied in a way

Select correct option:

Dot Product

Cross Product

Both of above

None of above

Question # 10 of 10 (Start time: 08:26:05 PM) Total Marks: 1

_____ is used for circumference of a circle.

Select correct option:

$2 * r$

$2 * \pi * c$

$2 * \pi$

None of the given option

Question # 1 of 10 (Start time: 08:27:44 PM) Total Marks: 1

The process of moving points in space is called _____.

Select correct option:

Redering

Modeling

Meshing

None of above

Question # 2 of 10 (Start time: 08:28:33 PM) Total Marks: 1

Global coordinate systems can be defined with respect to local coordinate system

Select correct option:

True

False

Question # 4 of 10 (Start time: 08:30:06 PM) Total Marks: 1

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

Select correct option:

Straight

Circular

Oval

Ellipse

Question # 5 of 10 (Start time: 08:31:13 PM) Total Marks: 1

In video text memory, _____ are used to display a character.

Select correct option:

2 bytes

4 bytes

8 bytes

16 bytes

Question # 6 of 10 (Start time: 08:32:34 PM) Total Marks: 1

In 2D transformation, two successive rotations can be performed in any order (rotation 1 then rotation 2 or rotation 2 then rotation 1).

Select correct option:

True

False

Question # 7 of 10 (Start time: 08:33:15 PM) Total Marks: 1

In _____ transformation one coordinate is held fixed and the other coordinate or coordinates are shifted.

Select correct option:

Rotation

Reflection

Shear

Scaling

Question # 8 of 10 (Start time: 08:33:57 PM) Total Marks: 1

Computer Graphics are used in _____.

Select correct option:

Game development

Movies development

Simulations

All of the given

Question # 9 of 10 (Start time: 08:34:17 PM) Total Marks: 1

_____ is the process of describing an object or scene so that we can construct an image of it

Select correct option:

Rendering

Modeling

Meshing

None of above

Question # 10 of 10 (Start time: 08:34:57 PM) Total Marks: 1

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

Select correct option:

Better

Worse

Almost same

Good

Question # 1 of 10 (Start time: 08:38:26 PM) Total Marks: 1

If a line connecting any two points within a polygon does not intersect any edge, then it will be a _____ polygon(s).

Select correct option:

Convex

Concave

Complex

Concave and Complex

Question # 2 of 10 (Start time: 08:39:36 PM) Total Marks: 1

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

Select correct option:

Circle

Parabola

Hyperbola

Ellipse

Question # 3 of 10 (Start time: 08:40:20 PM) Total Marks: 1

Dot product of two vectors result in _____ quantity.

Select correct option:

Scalar

Vectors

Magnitude

Value

Question # 4 of 10 (Start time: 08:41:34 PM) Total Marks: 1

In 2D transformations, two successive rotations applied to a point P can be denoted as _____ (Where θ represents theta).

Select correct option:

$$P' = R(\theta_1 + \theta_2) \cdot P$$

$$P' = (R(\theta_1) + R(\theta_2)) \cdot P$$

$$P' = R(\theta_1 \times \theta_2) \cdot P$$

$$P' = R(\theta_1) \cdot P$$

Question # 5 of 10 (Start time: 08:42:53 PM) Total Marks: 1

By preserving the original shape of an object with a scaling is called _____ scaling.

Select correct option:

parallel

vertical

horizontal

none of given

Question # 6 of 10 (Start time: 08:44:24 PM) Total Marks: 1

Tomography is the technique used in _____.

Select correct option:

X-rays photography

Pixel paint

Entertainment

Artis's paintbrush

Question # 7 of 10 (Start time: 08:47:14 PM) Total Marks: 1

To move a _____ from one location to another, we translate the center point and redraw the same using new center point.

Select correct option:

Hyperbola

Parabola

Circle

Line

Question # 8 of 10 (Start time: 08:48:08 PM) Total Marks: 1

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

Select correct option:

Parabola

Hyperbola

Ellipse

Circle

Question # 9 of 10 (Start time: 08:48:38 PM) Total Marks: 1

In 2D transformation, two successive rotations can be performed in any order (rotation 1 then rotation 2 or rotation 2 then rotation 1).

Select correct option:

True

False

Question # 10 of 10 (Start time: 08:49:21 PM) Total Marks: 1

A unit vector has zero magnitude.

Select correct option:

True

False

Saving...

Question # 1 of 10 (Start time: 08:51:28 PM) Total Marks: 1

In video text memory, _____ are used to display a character.

Select correct option:

2 bytes

4 bytes

8 bytes

16 bytes

Question # 2 of 10 (Start time: 08:52:52 PM) Total Marks: 1

A straight line can be moved to another location by applying _____ to each of the line endpoints and redrawing the line between the new coordinates.

Select correct option:

Rotation

Translation

Reflection

Scaling factor

Question # 3 of 10 (Start time: 08:53:28 PM) Total Marks: 1

DDA abbreviated for _____.

Select correct option:

Discrete data analyzer

Digital data analyzer

Digital differential analyzer

Different Analog differential analyzers

Question # 4 of 10 (Start time: 08:54:33 PM) Total Marks: 1

A scaling transformation alters the _____ of an object.

Select correct option:

Shape

Position

Size

Rotation

Question # 5 of 10 (Start time: 08:55:07 PM) Total Marks: 1

A column matrix is also known as _____.

Select correct option:

Column vector

Row vector

Vector

Simple Matrix

Question # 6 of 10 (Start time: 08:55:38 PM) Total Marks: 1

To move a _____ from one location to another, we translate the center point and redraw the same using new center point.

Select correct option:

Hyperbola

Parabola

Circle

Line

Question # 7 of 10 (Start time: 08:56:19 PM) Total Marks: 1

We can draw eight points corresponding to each (x , y) point calculation in _____ drawing algorithm.

Select correct option:

Sutherland

Mid Clipping

Mid Point Circle

Sutherland Clipping

Question # 8 of 10 (Start time: 08:57:31 PM) Total Marks: 1

We can take transpose of any matrix.

Select correct option:

True

False

Question # 9 of 10 (Start time: 08:58:13 PM) Total Marks: 1

According to the architecture of raster graphics system, display processor memory will act as _____.

Select correct option:

Video controller

System memory

Frame buffer

Video controller and System memory

Question # 10 of 10 (Start time: 08:59:24 PM) Total Marks: 1

Vectors can be multiplied in a way

Select correct option:

Dot Product

Cross Product

Both of above

None of above

[9:01:12 PM] Rosiiii.....: 3

Question # 1 of 10 (Start time: 09:03:22 PM) Total Marks: 1

Parity is a concept used to determine which _____ lie within a polygon.

Select correct option:

Edge

Vertices

Pixels

Points

Question # 4 of 10 (Start time: 09:06:42 PM) Total Marks: 1

Computer Graphics are used in _____.

Select correct option:

Game development

Movies development

Simulations

All of the given

Question # 5 of 10 (Start time: 09:07:18 PM) Total Marks: 1

In 2D transformation, two successive rotations can be performed in any order (rotation 1 then rotation 2 or rotation 2 then rotation 1).

Select correct option:

True

False

Question # 6 of 10 (Start time: 09:07:47 PM) Total Marks: 1

_____ is used to move a point, or a set of points, linearly in space

Select correct option:

Transformation

Translation

Scaling

None of above

Question # 7 of 10 (Start time: 09:08:48 PM) Total Marks: 1

Rotating a point requires

Select correct option:

the coordinates for the point

the rotation angles

Both of above

None of above

Question # 8 of 10 (Start time: 09:09:27 PM) Total Marks: 1

Monochrome Adapter (MA) is a single color adapter

Select correct option:

True

False

Question # 9 of 10 (Start time: 09:10:01 PM) Total Marks: 1

“Computer Graphics” and “Computer Vision” are,

Select correct option:

Same fields

Totally different fields

Interrelated fields

None of the given

Question # 10 of 10 (Start time: 09:11:16 PM) Total Marks: 1

In video text memory, _____ are used to display a character.

Select correct option:

2 bytes

4 bytes

8 bytes

16 bytes

In Trivial acceptance/reject test there are four bits of nine regions, Bit 4 represents condition _____.

Select correct option:

Outside half plane of left edge, to the left of left edge $X < X_{min}$

Outside half plane of right edge, to the right of right edge $X > X_{max}$

Outside half plane of bottom edge, below bottom edge $Y < Y_{min}$

Outside half plane of top edge, above top edge $Y > Y_{max}$

Question # 3 of 10 (Start time: 11:16:59 PM) Total Marks: 1

In 2D transformation, _____ can be achieved by rotating the object about 180 degrees.

Select correct option:

Translation

Scaling

Shear

Reflection

sec(s)

Question # 4 of 10 (Start time: 11:18:22 PM) Total Marks: 1

If the values of scaling factors s_x and s_y are less than 1, then size of object will be _____.

Select correct option:

Reduced

Remain same

Enlarged

Shear

Question # 5 of 10 (Start time: 11:18:58 PM) Total Marks: 1

If the direction of projection is (at 90) perpendicular to the projection plane then it is

Select correct option:

Perspective Projection

Parallel Projection

Oblique Projection

none of given(orthogonal projection)

Question # 7 of 10 (Start time: 11:20:34 PM) Total Marks: 1

Concave polygons are a superset of _____ polygons, having fewer restrictions than _____ polygons.

Select correct option:

Hybrid, Complex

Concave, Complex

Convex, Convex

Complex, Complex

Quiz Start Time: 11:16 PM

Time Left 88

sec(s)

Question # 8 of 10 (Start time: 11:21:36 PM) Total Marks: 1

Twice the radius of circle is called as _____.

Select correct option:

Area

Diameter

$2 * \pi$ Radian

Circumference

Question # 9 of 10 (Start time: 11:22:37 PM) Total Marks: 1

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

Select correct option:

Straight

Circular

Oval

Ellipse

The process of subdivision an entity or surface into one or more non-overlapping primitives.

Select correct option:

Rendering

Modeling

Meshing

None of above(tesselation)

Question # 4 of 10 (Start time: 11:25:40 PM) Total Marks: 1

In 2D transformation, _____ can be achieved by rotating the object about 180 degrees.

Select correct option:

Translation

Scaling

Shear

Reflection

Question # 5 of 10 (Start time: 11:26:29 PM) Total Marks: 1

Save a line with both endpoints inside all clipping boundaries is called as _____.

Select correct option:

Total inside

Trivial reject

Trivial accept

Total outside

Question # 6 of 10 (Start time: 11:27:07 PM) Total Marks: 1

In Trivial acceptance/reject test there are four bits of nine regions, Bit3 represents condition _____.

Outside half plane of left edge, to the left of left edge $X < X_{min}$

Outside half plane of right edge, to the right of right edge $X > X_{max}$

Outside half plane of bottom edge, below bottom edge $Y < Y_{min}$

Outside half plane of top edge, above top edge $Y > Y_{max}$

_____ is used to move a point, or a set of points, linearly in space

Select correct option:

Transformation

Translation

Scaling

None of above

Question # 1 of 10 (Start time: 11:32:20 PM) Total Marks: 1

Three or more points that lie on the same line are called _____.

Select correct option:

Singular

Collinear

Line slop

Line slop and Singular

Question # 2 of 10 (Start time: 11:33:16 PM) Total Marks: 1

Computer Graphics are used in _____.

Select correct option:

Game development

Movies development

Simulations

All of the given

Question # 5 of 10 (Start time: 11:35:32 PM) Total Marks: 1

Global coordinate systems can be defined with respect to local coordinate system

Select correct option:

True

False

Question # 6 of 10 (Start time: 11:35:59 PM) Total Marks: 1

By preserving the original shape of an object with a scaling is called _____ scaling.

Select correct option:

parallel

vertical

horizontal

none of given

Question # 7 of 10 (Start time: 11:36:17 PM) Total Marks: 1

We can draw the circle using _____.

Select correct option:

Pentane

Hexanes

Trident

Octants

Question # 8 of 10 (Start time: 11:36:51 PM) Total Marks: 1

To move a _____ from one location to another, we translate the center point and redraw the same using new center point.

Select correct option:

Hyperbola

Parabola

Circle

Line

Question # 9 of 10 (Start time: 11:37:10 PM) Total Marks: 1

Translation moves objects without _____.

Select correct option:

Scaling

Rotation

Deformation

Scaling and Rotation

Question # 10 of 10 (Start time: 11:37:50 PM) Total Marks: 1

Which of the following is NOT a modern application for Computer Graphics -----

Select correct option:

Computer Aided Geometric Design

Video Games

Stop-motion animation

Scientific Visualization