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PSMD01

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## **MIDTERM EXAMINATION** Spring 2013 **CS602-** Computer Graphics

**Question No: 1** (Marks: 1) - Please choose one DDA abbreviated for \_\_\_\_\_.

None of the given Discrete data analyzer Digital data analyzer **Digital differential analyzer (Page 54)** 

#### **Question No: 2** (Marks: 1) - Please choose one

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

None of the given Total .... (inside (maybe)) **Trivial Reject Trivial Accept (Page 142)** 

#### **Ouestion No: 3** (Marks: 1) - Please choose one

projection is obtained by projecting points along parallel lines that are not perpendicular to the projection plane.

Perspective Orthographic **Oblique (Page 198)** 

#### **Ouestion No: 4** (Marks: 1) - Please choose one

The dot product of two vectors A and B is \_\_\_\_\_\_. Iff the angle between them is less than 90 or greater than 270 degrees.

Greater than zero (0) (Page 177)

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Less than zero (0) Equal to Zero (0) None of the given

#### Question No: 1 (Marks: 1) - Please choose one

This projection technique has the direction of projection perpendicular to the viewing plane, and the viewing direction is perpendicular to one of the principle faces.

metric Parallel Projection Oblique Parallel Projection Orthographic Parallel Projection None of the given

Question No: 5(Marks: 1) - Please choose oneOrthographic projections that show more than one side of an object are called \_\_\_\_\_ projections.

Cavalier Cabinet **Axonometric (Page 196)** Perspective

Question No: 6 (Marks: 1) - Please choose one Computer Graphics are used in \_\_\_\_\_.

Movies development Simulations All of the given Game development

Question No: 7 (Marks: 1) - Please choose one "Computer Graphics" and "Computer Vision" are

Same fields Interrelated fields None of the given **Totally different fields** <u>http://en.wikipedia.org/wiki/Computer\_vision</u>

**Question No: 8** (Marks: 1) - Please choose one We can take transpose of \_\_\_\_\_.

matrix with 1 row 1 column matrix with 2 rows 3 columns matrix with 3 rows 2 columns any matrix

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	( Marks: 1 ) - Please choose one , line-clipping techniques are sufficient for clipping.
filled <b>unfilled (Page 146)</b> half filled All of the given	
	(Marks: 1) - Please choose one against one edge is independent of all others, so it is to arrange the clipping
Sometimes impossible None of the given <b>Possible (Page 150)</b> Impossible	le
	(Marks: 1) - Please choose one daptive to the degree of curvature of a surface.
<b>Local (Page 170)</b> Static Global Variable	
	(Marks: 1) - Please choose one cess in boundary filling algorithm begins when a point of the figured is
Outside the boundary Inside the boundary At boundary None of the above	
	(Marks: 1) - Please choose one oth endpoints outside clipping boundary is called as

Trivial accept **Trivial reject (Page 142)** Total outside None of the above

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#### Question No: 14 (Marks: 1) - Please choose one

\_\_\_\_\_\_is the tendency of the text to flash as it moves up or down.

#### Flickering (Page 38)

Snow Distortion None of the above

Question No: 15 (Marks: 1) - Please choose one The axonometric projection is \_\_\_\_\_\_ where the direction of projection makes same angle with all axes.

#### DIMETRIC Isometric (Page 196) Oblique Trimetric

Question No: 16 (Marks: 1) - Please choose one We can draw the circle using \_\_\_\_\_

Pentane Hexane Trident **Octant (Page 63)** 

Question No: 17 (Marks: 1) - Please choose one direct view storage tube maintains the picture display.

Electron gun Proton gun **Flood gun (Page 29)** All of the above

Question No: 18 (Marks: 1) - Please choose one Because clipping against one edge is independent to all others, so it is \_\_\_\_\_\_ arrange the clipping stages in a pipeline.

#### **Possible (Page 150) rep** Impossible Sometimes impossible None of the above

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Question No: 19	(Marks: 1) - Please choose one	
If the polygons are	line clipping techniques are s	ufficient for clipping.

Filled **Unfilled (Page 146) rep** Half filled All of the above

Question No: 20 (Marks: 1) - Please choose one Polygons consisting of \_\_\_\_\_\_ can cause problems when rendering.

**Non-coplanar vertices (Page 169)** 

Co-planar vertices Any vertices None of the above

Question No: 1 (Marks: 1) - Please choose one

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 < Xmin Outside half plane of right edge, to the right of right edge X > Xmax (Page 143) Outside half plane of bottom edge, below bottom edge Y < Ymin Outside half plane of top edge, above top edge Y > Ymax

Question No: 2(Marks: 1) - Please choose onePlasma-panel displays use a gas mixture that usually includes \_\_\_\_\_

Zinc Iron

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## CS602 – Solved Quizzes (Quiz No.1 & 2)

Question No: 1 of 10 (Marks: 1) - Please choose one A line, or straight line, is, roughly speaking, an (infinitely) thin, (infinitely) long, straight geometrical object.

**True (Page 53)** False

Question No: 2 of 10 (Marks: 1) - Please choose one

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

Better Worse Almost same Good

Question No: 3 of 10 (Marks: 1) - Please choose one  $(x^2 / a^2) + (y^2 / b^2) = 1$  is an equation of \_\_\_\_\_

Parabola Hyperbola **Ellipse (Page 70)** Circle

Question No: 4 of 10 (Marks: 1) - Please choose one We can draw the circle using \_\_\_\_\_\_.

> Pentane Hexanes Trident **Octants (Page 63) rep**

**Question No: 5 of 10 (Marks: 1) - Please choose one** A scaling transformation alters the \_\_\_\_\_\_ of an object.

> Shape Position Size (Page 120) Rotation

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#### Question No: 6 of 10 (Marks: 1) - Please choose one

Boundary Filling Algorithm can work for complex polygons.

True False

#### Question No: 7 of 10 (Marks: 1) - Please choose one

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

Circle Hyperbola **Parabola (Page 73)** Ellipse

Question No: 8 of 10 (Marks: 1) - Please choose one

Monochrome Adapter (MA) is a single color adapter

**True (Page 38)** False

#### Question No: 9 of 10 (Marks: 1) - Please choose one

If the value of scaling factors sx and sy is greater than 1, then size of objects will be \_\_\_\_\_

Reduced Enlarged (Page 121) Remain same Shear

Scan line filling Flood filling (Page 104) Both scan line and flood filling Scan filling

#### Question No: 1 of 10 (Marks: 1) - Please choose one

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

Edge Vertices **Pixels (Page 80)** Points

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# Question No: 2 of 10 (Marks: 1) - Please choose one Various curve functions are useful in \_\_\_\_\_

#### **Object modeling (Page 69)**

Graphics applications Animation path specifications All of the given

**Question No: 3 of 10 (Marks: 1) - Please choose one** polygons are basically concave polygons that may have self-intersecting edges.

**Complex (Page 79)** Hybrid Convex Convex and Hybrid

Question No: 4 of 10 (Marks: 1) - Please choose one Concave polygons are a superset of \_\_\_\_\_

polygons, having fewer restrictions than

8

polygons.

Hybrid, Complex Concave, Complex **Convex, Convex (Page 79)** Complex, Complex

Question No: 5 of 10 (Marks: 1) - Please choose one There are \_\_\_\_\_\_ basic types of polygon.

2 3 (Page 78) 4

5

Question No: 6 of 10 (Marks: 1) - Please choose one

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

Sutherland Mid Clipping Mid Point Circle Sutherland Clipping

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Question No: 7 of 10 (Marks: 1) - Please choose one the horizontal refresh ------

Is no longer used in any system Is distracting and can cause eye fatigue eye into thinking the horizontal refresh rate is faster

**Question No: 8 of 10 (Marks: 1) - Please choose one** Computer graphics is very helpful in producing graphical representations for scientific visualization.

**True (Page 9)** False

Question No: 9 of 10 (Marks: 1) - Please choose one In video text memory, \_\_\_\_\_\_ are used to display a character.

#### 2 bytes (Page 43)

4 bytes 8 bytes 16 bytes

**Question No: 10 of 10** (Marks: 1) - Please choose one The basis functions fi(u) in Bezier curve must be symmetric with respect to u and (u-2)

Yes No (Page 341)

Question No: 1 of 10 (Marks: 1) - Please choose one Three or more points that lie on the same line are called \_\_\_\_\_\_.

Singular Collinear (Page 53) Line slop Line slop and Singular

Question No: 2 of 10 (Marks: 1) - Please choose one Cross product of two vectors result in a

Magnitude Vector (Page 116) Scalar Value

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Question No: 3 of 10 (Marks: 1) - Please choose one To move a \_\_\_\_\_\_ from one location to another, we translate the center point and redraw the same using new center point.

Hyperbola Parabola **Circle (Page 119)** Line

Question No: 4 of 10 (Marks: 1) - Please choose one \_\_\_\_\_\_\_ is the set of points that are equidistant from its origin.

Line Parabola **Circle (Page 59)** Ellipse

Question No: 5 of 10 (Marks: 1) - Please choose one It is safe to assume that all raster-type monitors can accept the same input

True False

Question No: 6 of 10 (Marks: 1) - Please choose one Twice the radius of circle is called as \_\_\_\_\_

Area **Diameter (Page 59)** 

2\*Pi Radian Circumference

Question No: 7 of 10 (Marks: 1) – Please choose one Both Boundary Filling and Flood filling algorithms are non-recursive techniques.

1. True

2. False (Page 102)

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#### Question No: 8 of 10 (Marks: 1) - Please choose one We can take transpose of any matrix.

• True

False

Question No: 9 of 10 (Marks: 1) - Please choose one

Normalized cross product of two vectors on that surface provides normal vector

#### **YES (Page 347)**

NO

### Question No: 10 of 10 (Marks: 1) - Please choose one

Set up your tripod and pointing the camera at the scene

projection transformation viewport transformation modeling transformation **viewing transformation (Page 372)** 

Question No: 1 of 10 (Marks: 1) - Please choose one

is based on characteristic size or scale

Fractal Geometry Traditional Geometry Euclidean Geometry None of Above

 Question No: 2 of 10 (Marks: 1) - Please choose one

 Bernstein polynomial functions are the basic functions of \_\_\_\_\_\_ curves.

 NURBS

 Bezier

 Both NURBS and Bazier (Page 342) not confirm

None of the given

Question No: 3 of 10 (Marks: 1) - Please choose one

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# Silhouette edges occur when dot product of surface normal vector and the view vector is Zero (Page 345)

## One Both zero and one None of the given

#### Question No: 4 of 10 (Marks: 1) - Please choose one

A fractal is generally a property called \_\_\_\_

**Fractal Dimension** 

Self-similarity

Koch Curve

None of above

#### Question No: 5 of 10 (Marks: 1) - Please choose one

The curve is always contained within the \_\_\_\_\_ of the control points

Tangents **Convex Hull (Page 340)** Subdivision None of Above

#### Question No: 6 of 10 (Marks: 1) - Please choose one OpenGL function is used for aiming and positioning the camera towards the object

glLoadIdentity() gluLookAt() (Page 374) glFrustum() None of Above

Question No: 7 of 10 (Marks: 1) - Please choose one

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Exponential Cubic None of above Question No: 8 of 10 ( Marks: 1 ) - Please choose one Perspective projection is specified with the function glFrustum(). Yes (Page 376) No Question No: 9 of 10 ( Marks: 1 ) - Please choose one Line connecting any two points within a polygon does not intersect any edge, then it will be a Polygon. Convex (Page 79) Concave Complex None of the given Question No: 1 of 0 10 ( Marks: 1 ) - Please choose one Eclipse function Eclipse function Eclipse function Question No: 1 of 10 ( Marks: 1 ) - Please choose one: actual filling process in boundary filling algorithm begins when a point of the figure is selected. Outside the boundary (Marks: 1 ) - Please choose one: actual filling process in boundary filling algorithm begins when a point of the figure is selected. Outside the boundary (Page 102) rep At boundary Question No: 2 of 10 ( Marks: 1 ) - Please choose one: Each hyperbola consists of two Vertices Nodes Branches(Page 70) Points	Bezier curve can represent the more complex piecewise curve.
Cubic   None of above   Question No: 8 of 10 ( Marks: 1) - Please choose one Perspective projection is specified with the function glFrustum(). Yes (Page 76) No Question No: 9 of 10 ( Marks: 1) - Please choose one Line connecting any two points within a polygon does not intersect any edge, then it will be a	Polynomial (Page 338)
None of above Question No: 8 of 10 (Marks: 1) - Please choose one Perspective projection is specified with the function glFrustum(). Ves (Page 376) No Question No: 9 of 10 (Marks: 1) - Please choose one ince connecting any two points within a polygon does not intersect any edge, then it will be aoolygon. Concave Complex Concave Complex No Conceve (Page 79) Concave Complex None of the given Question No: 10 of 10 (Marks: 1) - Please choose one Citcule function Cictle function Cictle function Cuestion No: 1 of 10 (Marks: 1) - Please choose one Cictule function Cuestion No: 1 of 10 (Marks: 1) - Please choose one Cuestion No: 1 of 10 (Marks: 1) - Please choose one Cuestion No: 1 of 10 (Marks: 1) - Please choose one Cuestion No: 1 of 10 (Marks: 1) - Please choose one Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Choose one Cate Choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Choose one Cate Cuestion No: 2 of 10 (Marks: 1) - Please choose one Cate Choose on	
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Each hyperbola consists of two Vertices Nodes Branches (Page 70) Points	None of the given
Each hyperbola consists of two Vertices Nodes Branches (Page 70) Points	Question No: 2 of 10 (Marks: 1) - Please choose one
Vertices Nodes Branches (Page 70) Points	
Branches (Page 70) Points	
Points	Nodes
Question No: 3 of 10 (Marks: 1) - Please choose one	Points
Question No: 3 of 10 (Marks: 1) - Please choose one	
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Question No: 4 of 10 (Marks: 1) - Please choose one Vectors can be multiplied in a way Dot product Cross product Both of above (page 176) None of given

Question No: 5 of 10 (Marks: 1) - Please choose one Shortcoming of Sutherland-Hodgeman Algorithm is concave polygons may be displayed with extensors lines True (Page 244) False

Question No: 6 of 10 (Marks: 1) - Please choose one The process of subdivision an entity or surface into one or more non-overlapping primitives.

Rendering Modeling Meshing **None of above (page 259)** 

Question No: 7 of 10(Marks: 1) - Please choose one In Trivial acceptance/reject test there are four bits of nine regions, Bit 4 represents condition

**Outside half plane of left edge, to the left of left edge X < Xmin (Page 143)** Outside half plane of right edge, to the right of right edge X > Xmax Outside half plane of bottom edge, below bottom edge Y < Ymin Outside half plane of top edge, above top edge Y > Ymax

Question No: 8 of 10 (Marks: 1) - Please choose one In Trivial acceptance/reject test there are four bits of nine regions, Bit 2 represents condition \_

Outside half plane of left edge, to the left of left edge X < Xmin Outside half plane of right edge, to the right of right edge X > Xmax **Outside half plane of bottom edge, below bottom edge Y < Ymin (page 143)** Outside half plane of top edge, above top edge Y > Ymax

Question No: 9 of 10 (Marks: 1) - Please choose one

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

Rendering **Modeling (Page 164)** Meshing None of above

#### Question No: 10 of 10 (Marks: 1) - Please choose one

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

#### True False (Page 244)

## Ouestion No: 1 of 10 (Marks: 1) - Please choose one

Process of moving points in space is called

Rendering Modeling Meshing **None of above (Page 259)** 

#### Question No:2 of 10 (Marks: 1) - Please choose one

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

#### **Uniform (page 121)**

Unequal Multiform Equal

#### Question No: 3 of 10 (Marks: 1) - Please choose one

transformation produces shape distortions as if objects were composed of layers that are caused to slide over each other.

Rotation Translation Reflection Shear (Page 129)

Question No: 4 of 10 (Marks: 1) - Please choose one Global coordinate systems can be defined with respect to local coordinate system True False (Page 163)

rube (ruge 100)

Question No: 1 of 10 (Marks: 1) - Please choose one

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# The given primitives are clipped to the boundaries of \_\_\_\_\_\_ not drawn.

and primitives lying outside are

Clipping polygon Clipping circle **Clipping rectangle (Page 247)** Clipping Line

Question No: 5 of 10 (Marks: 1) - Please choose one In 2D transformation, \_\_\_\_\_\_ can be achieved by rotating the object about 180 degrees.

Translation Scaling Shear **Reflection (page 191)** 

Question No: 6 of 10 (Marks: 1) - Please choose one Discard a line with both endpoints outside clipping boundaries is called as

#### **Trivial reject (Page 142)**

Trivial accept Total outside Total inside

Question No: 7 of 10 (Marks: 1) - Please choose one

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

Rotation Reflection **Shear** <u>click here for detail</u> Scaling

Question No: 8 of 10 (Marks: 1) - Please choose one Locations can be translated or "transformed" from one coordinate system to the other. Select correct option:

**True (Page 163)** False

Question No: 9 of 10 (Marks: 1) - Please choose one

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Geometric patterns that is repeated at ever smaller scales to produce irregular shapes and surfaces are called \_\_\_\_\_\_

Geometric patterns Fractals (page 352) Animated components Segments

Question No: 10 of 10(Marks: 1) - Please choose oneBezier curve is tangent to the lines connectingFirst two pointsLast two pointsFist two points and last two point (Page 340)None of the given

Question No: 1 of 10 (Marks: 1) - Please choose one Intensity of the electron beam is controlled by setting \_\_\_\_\_\_ levels on the control grid, a metal cylinder that fits over the cathode.

- ► Amplitude
- ► Current
- ► Voltage (Page 26)
- ▶ electron

Question No: 2 of 10 (Marks: 1) - Please choose one Using Cohen-Sutherland line clipping, it is impossible for a vertex to be labeled 1111.

- ► true
- ► false

Question No: 3 of 10 (Marks: 1) - Please choose one Shadow mask methods can display a \_\_\_\_\_\_ range of colours.

- ► Small
- ► Wide (Page 29)
- ► Random
- ► crazy

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Question No: 4 of 10 (Marks: 1) - Please choose one Which one of the following step is not involved to write pixel using video BIOS services.

- Setting desired video mode
- ► Using bios service to set color of a screen pixel
- ► Calling bios interrupt to execute the process of writing pixel.
- ▶ Using OpenGL service to set color of a screen pixel (Page 45)

## Question No: 5 of 10 ( Marks: 1 ) - Please choose one

Each number that makes up a matrix is called an \_\_\_\_\_\_ of the matrix.

- Element (page 106)
- ► Variable
- ► Value
- ► component

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