

CG QUIZ 3(B & C)

Total points 17/20 ?

The respondent's email (**neku21ec@cmrit.ac.in**) was recorded on submission of this form.

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ram

Plasma Panels display is also known as *

1/1

- ☐ Shadow mask technique
- ☒ Gas discharge display
- ☐ Flat pannel display
- ☐ None of the above

What is the OpenGL function used to perform some action when the mouse is moved within the display window without pressing the buttons? *1/1

- ☐ glutPassiveFunc(fcndosomething)
- ☐ glPassiveMotionFcn(fcndosomething)
- ☐ glutPassiveMotion(fcndosomething)
- ☒ glutPassiveMotionFunc(fcndosomething)

To specify a scalar value, which input device is used? *

1/1

- ☐ Processor
- ☐ Stroke
- ☐ Locator
- ☒ Valuator

Which of the following is a Non emissive type of display? *

1/1

- ☐ Plasma panel
- ☐ thin film electroluminescent displays
- ☐ light emitting diodes
- ☒ LCD

To activate double buffering, which openGL function is used? *

1/1

- ☐ glutSwapBuffer(GLUT_DOUBLE)
- ☒ glutInitDisplayMode(GLUT_DOUBLE)
- ☐ glInitDisplayMode(GLUT_DOUBLE)
- ☐ None of the above

Digitizing a picture definition given in an application program into a set of pixel values for storage in the frame buffer is called, *

1/1

- ☐ Cell encoding
- ☒ Scan conversion
- ☐ Run length encoding
- ☐ None of the above

Which of the following is not a type of 1st order derivative operator? *

1/1

- ☐ Sobel
- ☒ Laplacian
- ☐ Robert
- ☐ Prewitt

a. Screen points/pixels are used to draw an image in Random Scan system. * 1/1
b. Mathematical functions are used to draw an image in Raster Scan System.
which statement is true?

- ☐ only a.
- ☐ only b.
- ☐ both a and b.
- ☒ none

CAD stands for *

1/1

- ☐ Computer architecture design
- ☒ Computer-aided design
- ☐ Computer art design
- ☐ None of the above

The number of voltage settings for each of the red/green/blue electron guns *1/1
is

- ☐ 8
- ☐ 64
- ☐ 128
- ☒ 256

$p=\{0,0\}$, $q=\{4,4\}$. What will be the value of D_e , D_4 and D_8 ? *

1/1

- ☐ 1, 8, 4
- ☒ $4\sqrt{2}$, 8, 4
- ☐ $4\sqrt{2}$, 4, 4
- ☐ $16\sqrt{2}$, 8, 4

Which edge represents a gradual change in intensity ? *

1/1

- ☐ Step
- ☐ Spike
- ☒ Ramp
- ☐ Roof

Related Libraries for OpenGL are, *

1/1

- ☐ OpenGL Utility
- ☐ Window-system libraries
- ☐ OpenGL Utility Toolkit
- ☒ All of the above

For a white background color, which of the following is used? *

1/1

- ☐ `glClearColor (1.0, 1.0, 0.0, 0.0)`
- ☒ `glClearColor (1.0, 1.0, 1.0, 0.0)`
- ☐ `glClearColor (0.0, 0.0, 1.0, 0.0)`
- ☐ `glClearColor (0.0, 0.0, 0.0, 0.0)`

`getPixel (x, y, color);` is used for *

1/1

- ☐ Stores the current color setting into the frame buffer at integer position(x, y)
- ☒ Retrieves the current frame-buffer setting for a pixel location
- ☐ Both a and b.
- ☐ None of the above.

$F = \{(0,1), (0,2), (1,2), (2,2)\}$ and $S = \{(0,0), (0,1)\}$. what will be the value of F erosion S?

*0/1

- ☐ $\{(0,0), (0,1), (0,2), (1,2), (1,1), (2,1), (2,2)\}$
- ☒ $\{(0,2), (1,2), (1,1), (2,1), (2,2)\}$
- ☐ $\{(0,1)\}$
- ☐ $\{(0,0), (0,1)\}$

Region growing techniques are which type of algorithm? *

1/1

- ☐ Manual
- ☒ Semi-automatic
- ☐ Automatic
- ☐ All of the above.

Why is the complexity of Bresenham's line drawing algorithm less than that of *1/1
DDA line drawing algorithm?

- ☐ It uses floating point operations over integer addition and subtraction
- ☐ It considers only selected ranged inputs
- ☒ It uses integer addition and subtraction over floating point operations
- ☐ None of the above

Which of the following is not true for image segmentation? *

0/1

- ☐ The subregions should share some common property.
- ☐ If all the subregions are combined, the original region can be obtained.
- ☐ The subregions should be connected.
- ☒ None of the above

In DDA, if the slope greater than 1, then the next point to be plotted is, *

0/1

- ☐ $(X_k + 1, Y_k + m)$
- ☒ $(X_k + m, Y_k + 1)$
- ☐ $(X_k + 1, Y_k + 1/m)$
- ☐ $(X_k + 1/m, Y_k + 1)$

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