Lesson Quiz

Answer the following questions to test your knowledge of the concepts and techniques taught in this lesson.

Question 1

1.0/1.0 point (graded)

Often in image processing, three numbers are stored for every pixel in a color image. What do these three values represent?

- (●) The red, green, and blue values of that pixel ✔
- ( ) The orange, cyan and magenta values of that pixel
- ( ) The distance of that pixel from its three nearest neighbors
- ( ) A score of the importance of that pixel to the overall image

Explanation

The RGB (red, green, and blue) value of a pixel represents the amount red, green, and blue that are combined to make make the color of that pixel.

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Answers are displayed within the problem

Question 2

1/1 point (graded)

In image processing, what is the function of a *closing* operation?

- (•) To remove small islands of background from the image ✔
- ( ) To remove small speckles of foreground
- ( ) To invert the foreground and background
- ( ) To change that pixel's value to a score, indicating how close it is to the nearest background pixel

Explanation
Closing removes small islands of background. Removing speckles of foreground is the 'opening' operation. Inverting foreground and background is just that. It just swap the values in each pixel and is not what we are looking for here.The final answer describes the 'distance transformation'.

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Answers are displayed within the problem

Question 3

1/1 point (graded)

What name is given to the image processing technique to make objects thinner in an image?

- ( ) Opening

- (•) Erosion ✔
- ( ) Thinning

Explanation
Erosion is the removal of boundary pixels of objects. In simpler terms, its a technique to make objects thinner.

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Answers are displayed within the problem

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