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**State** Finished

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**Time taken** 24 mins 10 secs

**Grade** 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 3.00 out of 3.00

Which of the following statements are true regarding watershed segmentation? (multiple choices may be correct)

- ☐ a. None of the others
- ☒ b. Watershed segmentation is often performed on the gradient image ✓
- ☐ c. Watershed segmentation is highly robust to noise in the image
- ☒ d. Watershed segmentation can work easily with user input as seed points ✓
- ☐ e. The watershed lines are equidistant from the seed points (local minima)

Your answer is correct.

The correct answers are:

Watershed segmentation is often performed on the gradient image,

Watershed segmentation can work easily with user input as seed points

Question **2**

Correct

Mark 3.00 out of 3.00

In the algorithm that does graph based segmentation based on Internal differences (not probabilistic aggregation), which of the following statements are true? (multiple choices may be correct)

- ☒ a. The internal difference of measures the dissimilarity of pixels within a region ✓
- ☒ b. The Diff(C1,C2) function measures the dissimilarity between two regions ✓
- ☐ c. The Diff(C1,C2) function measures the maximal dissimilarity within wither of the two regions
- ☐ d. The internal difference measures the dissimilarity between two regions

Your answer is correct.

The correct answers are:

The internal difference of measures the dissimilarity of pixels within a region,

The Diff(C1,C2) function measures the dissimilarity between two regions

Question **3**

Correct

Mark 4.00 out of 4.00

Which of the following statements are true regarding Mean-Shift segmentation?

- ☒ a. Mean-shift segmentation is often done in Luv color space ✓
- ☐ b. Mean-shift segmentation is called so because we compute the mean of pixels in a region in the image and shift it towards the mean of the image
- ☐ c. None of the others
- ☐ d. Mean-shift segmentation is implemented on a graph between super-pixels in the image
- ☒ e. Mean-shift segmentation is called so because the update step moves the density modes in the direction of gradient weighted averages. ✓

Your answer is correct.

The correct answers are:

Mean-shift segmentation is often done in Luv color space,

Mean-shift segmentation is called so because the update step moves the density modes in the direction of gradient weighted averages.

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