MultipleChoiceQuestion 0 Name the filters. **MultipleChoiceQuestion** 1 Name the filters. **MultipleChoiceQuestion** 2 Name the filters. **MultipleChoiceQuestion** 3 Which components of the gradient do these correlational filter masks compute? **MultipleChoiceQuestion** 4 How many steps does the Canny edge detector have? **MultipleChoiceQuestion** 5 The last (6th) step in Canny edge detection is... **MultipleChoiceQuestion** 6 The second to last (5th) step in Canny edge detection is... **MultipleChoiceQuestion** 7 The fourth step in Canny edge detection is... **MultipleChoiceQuestion** 8 The third step in Canny edge detection is... **MultipleChoiceQuestion** 9 The second step in Canny edge detection is... **MultipleChoiceQuestion** 10 The first step in Canny edge detection is... **MultipleChoiceQuestion** 11 What noise removal technique should we use when applying Canny edge detection? (first step) **MultipleChoiceQuestion** 12 Based on the previous question, what filter or filters could we use in the first step? **MultipleChoiceQuestion** 13 Apply the Gaussian filter in the figure to the highlighted pixel. [RESULTS IN NEXT QUESTION] **MultipleChoiceQuestion** 14 [RESULT]

MultipleChoiceQuestion

15 Apply the Gaussian filter in the figure to the highlighted pixel. [RESULTS IN NEXT QUESTION]

MultipleChoiceQuestion

16 [RESULT]

ClickMapQuestion

17 Assume that you have computed the gradients of an image and used them to calculate the gradient orientation and its magnitude. The results are shown in the image. Perform the non-maxima suppression of the Canny edge detector for the horizontal direction and select the elements that would be sent to zero in the image. [RESULTS IN NEXT QUESTION]

ClickMapQuestion

18 Assume that you have computed the gradients of an image and used them to calculate the gradient orientation and its magnitude. The results are shown in the image. Perform the non-maxima suppression of the Canny edge detector for the horizontal direction and select the elements that would be sent to zero in the image. [RESULTS IN NEXT QUESTION]

ClickMapQuestion

19 RESULTS

ClickMapQuestion

20 On paper, perform double thresholding with thresold values of 20 and 34. Provide your answers on Vevox for the high threshold only.

ClickMapQuestion

21 RESULTS

ClickMapQuestion

22 Perform ONE hysteresis step.

ClickMapQuestion

23 RESULTS

ClickMapQuestion

24 Perform a SECOND hysteresis step.

ClickMapQuestion

25 RESULTS

MultipleChoiceQuestion

26 Do we need to run a third hysteresis step?

ClickMapQuestion

27 RESULTS