Started on	Saturday, 25 November 2023, 10:23 AM
State	Finished
Completed on	Saturday, 25 November 2023, 10:26 AM
Time taken	3 mins 38 secs
Marks	8.00/9.00
Grade	**8.89** out of 10.00 (**89**%)

Question **1**

Complete

Mark 1.00 out of 1.00

Q7. What happens to the resulting polygon if the error threshold is set to zero in the merging method?

Select one:

- a. Forms a polygon with maximum perimeter.
- b. Contains all the boundary pixels.
- c. Excludes boundary pixels.
- d. Includes only the inflection points.

Question **2**

Complete

Mark 1.00 out of 1.00

Q1. How does redefining the starting point of a chain code affect its independence from the initial starting point on the boundary?

Select one:

- a. Remains independent of the initial starting point.
- b. Results in a unique sequence for each starting point.
- c. Changes the structure of the circular sequence.
- d. Introduces inconsistencies in the circular sequence.

Question **3**

Complete

Mark 1.00 out of 1.00

Q9. Which statement is true regarding two boundary shapes with the same mean and third statistical moment descriptors but different second moments?

Select one:

- a. They have identical shapes.
- b. They exhibit symmetry in the second moment.
- c. They have different spreads in the second moment.
- d. Their signatures are not comparable.

Question **4**

Complete

Mark 1.00 out of 1.00

Q3. How does the first difference of a chain code relate to rotation normalization?

Select one:

- a. Introduces rotation-dependent elements.
- b. Disrupts the circular sequence.
- c. Is affected by the direction of rotation.
- d. Is independent of boundary rotation.

Question **5**

Complete

Mark 0.00 out of 1.00

Q5. Why does the rubber-band polygonal approximation approach yield a polygon with minimum perimeter?

Select one:

- a. Follows a clockwise direction.
- b. Minimizes the number of vertices.
- c. Restricts the locations of the vertices.
- d. Enforces straight lines between vertices.

Question **6**

Complete

Mark 1.00 out of 1.00

Q2. What is the normalized starting point of the code 11076765543322?

Select one:

- a. 322110767655433
- b. 011076765543322
- c. 07676554332211
- d. 11076765543322

Question **7**

Complete

Mark 1.00 out of 1.00

Q8. How does setting the error threshold to zero affect the splitting method in polygonal approximations?

Select one:

- a. Has no effect on the resulting polygon.
- b. Forms polygons with minimal perimeter.
- c. Excludes boundary pixels.
- d. Generates disconnected polygons.

Question **8**

Complete

Mark 1.00 out of 1.00

Q6. In the rubber-band polygonal approximation approach, what is the maximum possible error in a cell if each cell corresponds to a pixel on the boundary?

Select one:

- a. Square root of d multiplied with 2
- b. Square root of 2 multiplied with d
- c. d divided by squre root of 2
- d. Square root of 2 multiplied with d then divided by 2

Question **9**

Complete

Mark 1.00 out of 1.00

Q4. What is the result of computing the first difference of the code 0101030303323232212111?

Select one:

- a. 3131331313031313031300
- b. 0101030303323232212111
- c. 2111010323113033223232
- d. 3033233222121110103

◄ Code4: Find the automatic threshold using Isodata algorithm

Jump to...

Shape signature 1 ►