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**Started on** Tuesday, 23 August 2022, 9:30 AM

**State** Finished

**Completed on** Tuesday, 23 August 2022, 9:58 AM

**Time taken** 28 mins 8 secs

Question **1**

Complete

Marked out of 1.00

In Mathematical Morphology,

- ☒ a. Erosion of foreground is equivalent to dilation of background
- ☐ b. Opening of the foreground is equivalent to erosion of the background
- ☐ c. Dilation of foreground is equivalent to Opening for background
- ☐ d. Closing of Foreground is equivalent to Dilation of Background

Question **2**

Complete

Marked out of 1.00

In Fourier Transform

- ☐ a. Convolution in spatial domain is equivalent to multiplication in frequency domain but not vice versa
- ☐ b. Convolution in spatial domain is not equivalent to multiplication in frequency domain
- ☒ c. Convolution in spatial domain is equivalent to multiplication in frequency domain and vice versa
- ☐ d. Convolution in spatial domain is equivalent to convolution in frequency domain

Question **3**

Complete

Marked out of 1.00

Edge Enhancement is achieved by

- ☐ a. Averaging
- ☐ b. Median Filtering
- ☐ c. Thresholding
- ☒ d. Sobel's Operator

Question **4**

Complete

Marked out of 1.00

Smoothing of an Image can be achieved by

- ☐ a. Sobel's Operator
- ☐ b. Brightness Adjustment
- ☒ c. Averaging Operation
- ☐ d. Contrast Stretching

Question **5**

Complete

Marked out of 1.00

In frequency domain Image smoothing is achieved by High Pass filtering

Select one:

- ☐ True
- ☒ False

Question **6**

Complete

Marked out of 1.00

Local Binary Pattern of the following window is given by:

15 16 19

10 20 18

17 15 16

- ☐ a. 10000000
- ☐ b. 00000001
- ☐ c. 11111111
- ☒ d. 00000000

Question **7**

Complete

Marked out of 1.00

Any color can be matched by mixing at most three colors

Select one:

- ☒ True
- ☐ False

Question **8**

Complete

Marked out of 1.00

Perceived Luminance depends on the luminance of the surroundings

Select one:

- ☒ True
- ☐ False

Question **9**

Complete

Marked out of 1.00

In HSI model of Color representation, Hue is represented as

- ☐ a. -180 to 180 degree
- ☐ b. 0 to 300 degrees
- ☐ c. 0 to 180 degrees
- ☒ d. 0 to 360 degree

Question **10**

Complete

Marked out of 1.00

Start position invariant chain code of the Freeman chain code

776676442345632220012 is

- ☐ a. 127766764423456322200
- ☐ b. 277667644234563222001
- ☒ c. 001277667644234563222
- ☐ d. 012776676442345632220

Question **11**

Complete

Marked out of 1.00

Template Matching is Scale Invariant

Select one:

- ☐ True
- ☒ False

Question **12**

Complete

Marked out of 1.00

Affine Transformation does not preserve parallel lines

Select one:

- ☐ True
- ☒ False

Question **13**

Complete

Marked out of 1.00

Dimensionality reduction is achieved by

- ☐ a. Dropping dimension having high covariance with another dimension
- ☒ b. Dropping dimension having low variance
- ☐ c. Dropping dimension having high variance
- ☐ d. Dropping dimension having low correlation with another dimension

Question **14**

Complete

Marked out of 1.00

Run Length Encoding of binary sequence 1110100011110 is

- ☐ a. 0311341
- ☐ b. 130111031401
- ☐ c. 300340
- ☒ d. 311341

Question **15**

Complete

Marked out of 1.00

Human Eye is more sensitive to flickering of

- ☒ a. High Spatial Frequencies
- ☐ b. Moderate Spatial Frequencies
- ☐ c. Average Spatial Frequencies
- ☐ d. Low Spatial Frequencies

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