

## Question Bank for Mid Sem 1 Examination Preparation

Q1) Define what do you mean by a digital image with its mathematical representation. Discuss the different stages of digital image processing with its basic architecture.

Q2) Define the meanings of the following terms with respect to digital image processing

- a) Image Filtering    b) Image Enhancement    c) Image Restoration    d) Image Segmentation    e) Image compression    f) a gray scale image

Q3) List the geometric transformation functions on a digital image and collect at least one library function from your favorite image processing library to do the stated transformations.

Q5) Given the following image  $I(x,y)$ , Fig 1, Obtain the negative of the image.

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 205 | 164 | 99  | 67  | 45  |
| 156 | 120 | 55  | 43  | 123 |
| 234 | 14  | 12  | 89  | 78  |
| 23  | 231 | 34  | 129 | 65  |
| 100 | 91  | 200 | 157 | 57  |

Fig 1: Image  $I(x,y)$

Q6) What is image thresholding? Obtain the threshold of the image  $I(x,y)$  in Fig 1, by using a program, if the threshold is 150 and the upper limit is 75. Validate your manually computed values.

Q4) What is image restoration model? Illustrate how the noise filtering helps to restore the image.

Q7) Obtain the results for following filtering instances for the above image at (2,2) position. The filtering instances are

- a) Mean filtering    b) Min filtering    c) Max filtering    d) Median filtering    e) Harmonic filtering    f) Geometric filtering    g) Weighted average filtering (use Laplacian 3x3 kernel for this)

Q8) What is the significance of transforms in general in image processing? Write the 4x4 Kernels for the following transforms and provide your comparative comments for each

- a) Discrete Fourier Transform (DFT)    b) Discrete Cosine Transform    c) Hadamard Transform  
b) Walsh Transform

Q9) Given the vector  $f(x) = \{0, 4, 1, 2\}$  obtain the DCT and Hadamard transforms

Q10) What is KL transform? Obtain the KL transform of the image given below

|   |   |   |   |
|---|---|---|---|
| 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 |

# Digital Image Processing Examination Questions

**M Walker**



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