

**Solution of VTU Examination Dec-2018
"Digital Image Processing" - 15EC72**

CBCS SCHEME

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15EC72

Seventh Semester B.E. Degree Examination, Dec-2018/Jan-2019
Digital Image Processing

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing ONE full question from each module.

- Module-1**
1. a. What is digital image? Explain the fundamental steps of digital image processing. (08 Marks)
 - b. Explain the concept of sampling and quantization of an image. (04 Marks)
 - c. Mention any four fields that use digital image processing. (08 Marks)

OR

2. a. Explain with neat diagram, how image is acquired using camera setup? (08 Marks)
- b. Define f_x , f_y and f_z and redundancy. Compute the f_x of the shortest f_x , f_y and f_z path between p and q in the image segment shown in Fig. Q2 (b) by considering $V = \{2, 3, 4\}$. (04 Marks)



- Fig. Q2 (b)**
- c. A continuous message of transmission for digital data is the baud rate defined as the number of bits transmitted per second. Generally, transmission is accomplished by packets consisting of a start bit, a byte (8 bits) of information and a stop bit. Using these facts find how many minutes would it take to transmit a 2048x2048 image with 256 intensity levels using a 33.6 K baud modem? (04 Marks)

Module-2

3. a. For a given 4x4 image having gray scales between [0,99] perform histogram equalization and draw the histogram of image before and after equalization. 4x4 image is shown in Fig. Q3(a). (08 Marks)



Fig. Q3 (a)

- b. Explain processing of images in frequency domain using ideal, Butterworth and Gaussian Low pass filter. (08 Marks)

OR

4. a. Define 2D DFT - with proper to 2D DFT of an image and state the following properties: (i) Translation (ii) Rotation (iii) Periodicity (iv) Convolution theorem. (08 Marks)
- b. With necessary graphs, explain the log and power law transformation used for spatial image enhancement. (04 Marks)
- c. Explain image sharpening in spatial domain using second order Laplacian derivative. (08 Marks)

Important Note: On completing each answer, compulsorily draw diagonal cross lines at the necessary blank space.
 2. All answers should be written in blue/black ink. All answers should be written in blue/black ink.

Digital Image Processing Exam Solution

Karin Nielsen-Saines



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