

**Department of Electronics & Communication Engineering
Faculty of Engineering, Integral University, Lucknow**

Assignment Sheet 2

Digital Image Processing (EC-024)

Due Date : **20-02-2014**

Problems : **5**

Q1. What do you mean by Imaging System Aberrations. Define Lens Aberrations and Defocus

Q2. What do you mean by Diffraction Limited Optical System.

Q3. Define the Following-

(i). Computing Spectra

(ii). Truncation

Q4. Write down 2-D convolution theorem and explain with the help of suitable example.

Q5. Write down the criteria for Optimality. Derive the Transfer function for the Weiner Filter.