**Due to 3rd, December, 2017**

1. Remove the noise from the input images Q\_1\_1, 1\_1\_2 , Q\_1\_3 , and Q\_1\_4. Submit your code and the output images.
2. Restore the original images from the inputs Q\_2\_1, Q\_2\_2 and Q\_2\_3.

3. (1)What is the advantage of converting an image from spatial domain to frequency domain? Explain properties of 2-D Fourier transform.

(2)What is the effect of size and shape of the mask on the filtering process?

1. Use Highpass filtering and threshold for image enhancement.The input image is Q\_3.
2. :Return highpass filtering of the input image using BHPF(order 4 with a cutoff frequency 50).
3. : Return the result of thresholding (1). Submit your code and output image. The reference results are as follows:



A. Input image B: result of highpass filtering A C: Result of thresholding B