

	COURSE: IMAGE PROCESSING		MARKS: /10
	TOPIC: Image Restoration and Noise Reduction	CODE: BCM2063	
	Lab Exercise	NO: 4	

QUESTION 1

[5 Marks]

Instruction:

- (a) Open “Lena.tiff”, read the file into f .
- (b) Add salt & pepper noise with density 0.01 to the original image f .
- (c) First experiment, repair corrupted image using median filter (without build-in-function).
- (d) Second experiment, repair corrupted image using average filter (without build-in-function)
- (e) Display the two filtered images side-by-side for comparison.
- (f) Inspect and analyse the results obtained from median filter and average filter in terms of image quality.

QUESTION 2

[5 Marks]

Instruction:

- (a) Open “Lena.tiff”, read the file into f .
- (b) Add salt & pepper noise with density 0.05 to the original image f .
- (c) First experiment, repair corrupted image using weight smooth filter (without build-in-function).
- (d) Second experiment, repair corrupted image using averaging filter (without build-in-function)
- (e) Display the two filtered images side-by-side for comparison.
- (f) Inspect and analyse the results obtained from weight smooth filter and average filter in terms of image quality.