

Assignment-3

Unit-3: Image Restoration

1. What is the difference between image enhancement and image restoration? Mention some important causes of image degradation. (CO1-Understand)
2. Give a model for image degradation/Restoration process. Explain noise models in detail.
(CO1-Understand)
3. Write down the limitations of Average filter. Also discuss common source of blurring and noise. (CO1-Understand)
4. Given below is a 3x3 image. What would the value of the centre pixel change to when this image is passed through a (CO3-Apply)

6	7	3
1	4	5
2	2	1

 - a. Arithmetic mean filter
 - b. Geometric mean filter
 - c. Harmonic mean filter
 - d. Median filter
 - e. Max filter
 - f. Min filter
5. What will be the output image, if the average filter is applied on the following image?
(CO3-Apply)

10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
50	50	50	50	50	50
50	50	50	50	50	50
50	50	50	50	50	50