

Q. 5 (a) For the following image, Perform: (i) Low Pass Filtering (ii) High pass filtering (iii) Median filtering

Comment on your results.

(10)

0	2	1
1	100	2
2	0	1

(b) Write difference between: Image Enhancement and Image Restoration

(05)

(c) A 4x4 sub image is shown below. Let $V = \{2, 4\}$. Compute D_4 , D_8 and D_m distance

(05)

between point p and q.

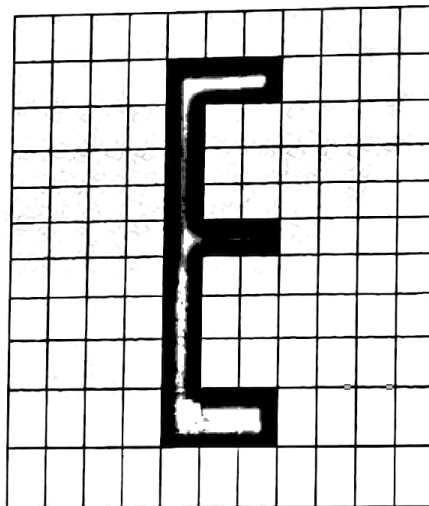
	0	1	2	3	y
0	4	2	2(p)	3	
1	4	3	2	1	
2	1	2	2	0	
3	2(q)	3	1	0	
	x				

Q.6 (a) Explain pixel based method of motion detection technique in video.

(08)

(b) Segment the following image using split and merge technique. Draw quad tree representation for the segmented image

(06)

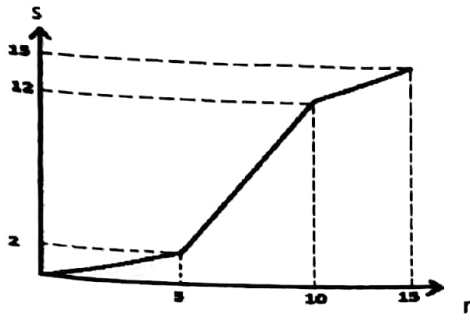


(c) For the digital image shown below in figure D, perform following operations

(06)

10	2	13	7
11	14	6	9
4	7	3	2
0	5	10	7

Figure (D)



Figure(C)

- 1) Contrast stretching as per the characteristics given in figure (C).
- 2) Draw the histogram of original and new image
- 3) Equalize the histogram