

M.E. Second Semester (Computer Science & Information Technology) (New - CGS)
13190 : Performance Analysis for Imaging Systems : 2 RNME 2

P. Pages : 1

Time : Three Hours



AU - 3438

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain different imaging system issues. 7
b) Draw the block diagram and explain imaging system components. 7
OR
2. a) Explain Linear Shift - Invariant (LSI) imaging system. 7
b) Explain three - step imaging process. 7
3. a) Explain threshold vision of aided eye. 7
b) State and explain Image Quality Metric. 6
OR
4. Explain Target Task Performance (TTP) metric. 13
5. a) State and explain differentiation & Integration property of Fourier transform. 7
b) Explain Dyadic & Discrete wavelet transform. 6
OR
6. a) Explain Radically Symmetric Filter with a Power Window. 7
b) Explain Image Resampling Model. 6
7. a) Explain Error - energy reduction algorithm. 7
b) Explain P - Deblurring Filter alongwith it's properties. 7
OR
8. a) Give belief overview of the super resolution reconstruction algorithm. 7
b) Explain CLEAN algorithm. 7
9. a) Explain in brief construct Enhancement method based on wavelet edges. 7
b) Explain experimental approach for image contrast enhancement. 6
OR
10. Explain different single - scale methods in brief. 13
11. a) What is Image Fusion? Explain important characteristics of Fusion Algorithm. 7
b) State & explain the benefits of multiple Image modes. 6
OR
12. a) Explain in brief Image Fusion Quality Metrics. 7
b) Explain perceptual linearization tone scale technique. 6
