

Subject Code: H4502/R13

M. Tech –II Semester Regular/ Supply Examinations, October, 2015

IMAGE AND VIDEO PROCESSING

(Com to SSP, DIP, CE&SP, IP, C&SP, SP&C, DECS, E&CE, DECE and CS)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions

All questions carry EQUAL marks

1. a) What is KL transform? What are the disadvantages of KL transform? Explain.
b) Explain about Haar transform
2. a) Which criteria highlight certain features of the interest? Explain about it.
b) Explain about the Image file formats.
3. a) What is high pass filter? Discuss about butter worth high pass filter.
b) What is histogram matching? discuss
4. a) Differentiate between linear and nonlinear image restoration techniques.
b) Discuss about Blind deconvolution.
5. What is clustering? Explain about different clustering techniques with examples.
6. a) What is redundancy in images? Discuss about Shannon Fano coding.
b) Discuss about wavelet based image compression.
7. a) Explain about Photometric image formation.
b) How sampling is done for video signals.
8. Explain about the following terms
 - a) Predictive coding
 - b) Region based motion estimation
 - c) Hadamard transformation
