Code :R7410408

R7

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011
DIGITAL IMAGE PROCESSING
(Electronics & Communication Engineering)

Time: 3 hours **Max Marks: 80**

Answer any FIVE questions
All questions carry equal marks

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1. (a) What is imaging geometry? Explain in detail.
   (b) Give any four relationships between pixels.
2. (a) Define F.T. Explain FFT algorithms.
   (b) Short notes on discrete cosine transform.
3. (a) What is meant by image enhancement by point processing?
   (b) Write short notes on histogram equalization.
4. (a) Under what conditions does Butterworth low pass filters become on ideal low pass filter.
   (b) Show that a high-pass filtered image in the frequency domain can be obtained by using the method of subtracting a low pass filtered image from the original.
5. Explain full colour image processing.
6. What is image restoration ? Explain the degradation model for continuous function in detail.
7. Write short note on:
   (a) Thresholding.
   (b) Segmentation techniques.
8. What is data redundancy? Explain various redundancies & their removal methods.

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