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Roll No

CS-8302**B.E. VIII Semester**

Examination, June 2017

Digital Image Processing**(Elective - III)****Time : Three Hours****Maximum Marks : 70****Note:** Attempt any five questions. All questions carry equal marks.

1. a) Discuss about Sampling and Quantization and image geometry.
b) Discuss about image quantization systems.
2. a) Discuss about Discrete Fourier transform and its applications.
b) Explain Divide and Conquer method of FFT.
3. a) Explain briefly about Discrete Cosine Transform.
b) Explain the concept of image enhancement.
4. a) Discuss the Histogram based processing.
b) Discuss about Median filtering.
5. a) Explain Image subtraction, averaging and image smoothing.
b) Discuss about image Quantizer and coder.

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6. a) Discuss about error free compression and lossy compression schemes.
b) How to detect discontinuities by point detection, line detection and edge detection method.
7. a) Discuss Global processing via Hough transforms and graph theoretic techniques.
b) Discuss briefly about Mathematical Morphology.
8. Write short notes on any two of the following :
a) Walsh Transform
b) Image sharpening by High pass filtering
c) JPEG compression

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