**BTET-5**

**Fifth Semester B. Tech Electronics & Telecommunication Engineering**

**Examination Aug/Sep-2015**

**Digital Image Processing**

**Time:-3Hours Max. Marks: - 75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Define the concept of Calorimetry.
2. Briefly write an introductory paragraph about Image sampling and Reconstruction Concepts.
3. What do you mean by Scalar Quantization?
4. Comment on the Circulant Super Position and Convolution.
5. What do you understand by the term Cosine Transform?
6. Give a brief introduction about Image Enhancement.
7. What are differential operators?

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Discuss the general unitary transforms in detail.
2. Point out the effects of Imperfect Reconstruction Filters.
3. Elaborate the following:
   1. Hadamard transform
   2. Haar transform

**SECTION-C**

**Answer any two questions. (15\*2)**

1. Write a detail note on the generalized to-dimensional linear operators.
2. Describe edge crispening in detail. In how many ways it is accomplished?
3. Enumerate the procedure of Color Matching in detail.