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Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech.(CSE) (2011 Onwards Elective-III) (Sem.-7,8)

DIGITAL IMAGE PROCESSING
Subject Code: BTCS-915

Paper ID : [A2997]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a. What is sampling and quantization?
- b. When and where will you use non-uniform sampling and quantization?
- c. What do you mean by false contouring?
- d. What is Fourier transform? What is its role in image processing?
- e. List out the important properties of two-dimensional Fourier transform.
- f. What is the advantage of using homomorphic filtering?
- g. Define compression ratio.
- h. What are the types of redundancies normally available in an image?
- i. What is the requirement of edge linking?
- j. What is difference between image enhancement and image restoration?

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SECTION-B

- 2. Describe in brief various lossy compression techniques.
- 3. Explain different edge detection operators and compare them.
- 4. Explain image restoration technique using inverse filtering.
- 5. Describe histogram equalization technique for image enhancement.
- 6. What are color models? Describe in brief RGB and HSI color models.

SECTION-C

- 7. With the help of block diagram, describe in detail fundamental steps in image processing.
- 8. Explain in detail various spatial domain filtering approaches for image enhancement.
- 9. Write short notes on:
 - a. JPEG Compression
 - b. Noise filters

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