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Roll No. Total No. of Pages: 02

Total No. of Questions: 09

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

DIGITAL IMAGE PROCESSING

Subject Code: BTCS-915 Paper ID: [A2997]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION 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 has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION A

Ql. Write briefly:

- a. Define Image
- b. What do you mean by Color model?
- c. Define Resolutions.
- d. How cones and rods are distributed in retina?
- e. What is geometric transformation?
- f. Write the expression to find the number of bits to store a digital image.
- g. Define shape numbers.
- h. What is meant by mach-band effect?
- i. Define the term Inter-pixel Redundancy.
- j. Define Haar transform.

1 | M C o d e 7 1 9 0 7 (S 2) - 5 3 2

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SECTION-B

- Q2. What is histogram? Explain histogram equalization.
- Q3. What is data redundancy? Explain three basic data redundancy.
- Q4. Discuss about Global processing via the Hough Transform.
- Q5. Define Thresholding and explain the various methods of thresholding.
- Q6. Explain the Properties of 2D discrete Fourier Transform.

SECTION-C

- Q7. Write a note on Noise Models in image restoration. Describe WIENER filter & inverse filtering.
- Q8. Discuss about region based image segmentation techniques. Compare threshold region based techniques.
- Q9. Describe the fundamental steps in image processing. Also explain the basic elements of digital image processing.

2 | M C o d e 7 1 9 0 7 (S 2) - 5 3 2