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Code: 9A04802 **R09**

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2015

DIGITAL IMAGE PROCESSING

(Electronics & Computer Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

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1 (a) What is the need for non-uniform sampling?
(b) Describe about relationships between pixels.

2 Verify that, if an image f(x, y) with dimensions M X N is multiplied by checkerboard pattern then its DFT is cantered at half the maximum size.

3 Discuss about spatial domain high pass filtering used in image enhancement.

4 Discuss about image smoothing using frequency domain techniques.

5 (a) Discuss about constrained least square image restoration.
(b) Explain about Weiner filtering.

6 Explain how region splitting and merging are useful in image segmentation, give suitable example for it.

7 (a) Obtain the Huffman code for the word HELLO.
(b) Discuss the classification of image compression schemes.

8 Explain the need for Chromaticity diagram in color image processing.

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