R09

Code No: C6302
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I Semester Examinations, March/April 2011
DIGITAL IMAGE PROCESSING
(IMAGE PROCESSING)

Time: 3hours   **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
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1. (a) Discuss various methods of image acquisition, and also compare them.
   (b) Discuss the concept of image stretching with an example.   [12]

2. (a) Write about spatial domain and frequency domain model for enhancement of an image.
   (b) What is the effect on image by applying high pass filtering?   [12]

3. (a) Explain Histogram equalization with an Example.
   (b) Briefly write about Run length coding.   [12]

4. Discuss in detail the WALSH transform with an example.   [12]

5. Discuss the following morphological operations with suitable examples.   [12]
         (a) Dilation   (b) Erosion
         (c) Opening   (d) Closing   (e) Pruning.

6. Discuss the characteristics of Segmentation. Discuss any two segmentation techniques.
                                                                                   [12]
7. (a) Write short notes on Image compression standards.
   (b) Discuss about Huffman coding with a suitable example.   [12]

8. What are the different color models used in image processing? Explain in detail. [12]

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