**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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<ul><li>1. (a) Discuss various methods of image acquisition, and also compare them.</li><li>(b) Discuss the concept of image stretching with an example.</li></ul>	[12]
<ul><li>2.(a) Write about spatial domain and frequency domain model for enhancement of ar</li><li>(b) What is the effect on image by applying high pass filtering?</li></ul>	image. [12]
<ul><li>3. (a) Explain Histogram equalization with an Example.</li><li>(b) Briefly write about Run length coding.</li></ul>	[12]
4. Discuss in detail the WALSH transform with an example.	[12]
<ul> <li>5. Discuss the following morphological operations with suitable examples.</li> <li>(a) Dilation (b) Erosion</li> <li>(c) Opening (d) Closing (e) Pruning.</li> </ul>	[12]
6. Discuss the characteristics of Segmentation. Discuss any two segmentation techniques. [12]	
<ul><li>7. (a) Write short notes on Image compression standards.</li><li>(b) Discuss about Huffman coding with a suitable example.</li></ul>	[12]
8. What are the different color models used in image processing? Explain in detail.	[12]

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