Printed Pages: 2



EBM-701

(Following Paper ID and Roll No. to be filled in your Answer Book) PAPER ID: 101704														
Roll No.														

B. Tech.

(SEM. VII) (ODD SEM.) THEORY EXAMINATION, 2014-15 BIOMEDICAL IMAGE PROCESSING

Time: 3 Hours [Total Marks: 100

- 1 (a) Explain light, luminance, brightness and contrast. 10 Discuss Mach band effect.
 - (b) State and prove sampling theorem related to image processing.
- 2 (a) Perform the histogram equalization of the image. 10
 - | 4
 | 4
 | 4
 | 4

 | 3
 | 4
 | 5
 | 4
 | 3

 | 3
 | 5
 | 5
 | 5
 | 3

 | 3
 | 4
 | 5
 | 4
 | 3

 | 4
 | 4
 | 4
 | 4
 | 4

	(b)	What are the various smoothing technique available in image enhancement? Explain in brief.	10
3	a.	What is DST? Explain properties of DST with its application.	10
	b.	What are the properties of Hadamard Transform? Find Hadamard matrix H_3 .	10
4	a.	What do you mean by image segmentation? Explain different image segmentation technique.	10
	b.	Explain Hough Transform with suitable example.	10
5		t are the applications of MATLAB for digital e processing?	10
6	Write (a) (b) (c)	e short notes: (any two) Clipping and thresholding RGB color Histogram specification.	=10