QP Code:15363

		(3 Hours) [Total Marks: 1	.00
	N. I	 3.: (1) Question No. 1 is compulsory. (2) Attemp any four questions out of remaining six questions. (3) All questions carry equal marks. (4) Assume suitable data wherever necessary and state them clearly. 	
1.	(b)	Explain classification of Discrete time systems. Prove that DFT is orthogonal transform. Explain image fidelity criteria. Unit step signal is a power signal. Justify.	5 5 5 5
2.	(a)	astin reasts (c) as a second	10
	(b)		10
3.	(a) (b)	Explain Decimation is time FFT algorithm with signal flow graph. Determine circular convolution of two sequences $x_1(n) = \{1, 2, 3, 1\}$ $x_2(n) = \{4, 3, 2, 2\}$	10 10
4.	(a) (b)	Explain region based image segmentation techniques. Explain image enhancement techniques in spatial domain.	10 10
5.	(a) (b)	Explain variou types of redundancies in an image. Specify techniques to remove redundancies. Construct improved gray scale quatization code for given data {100, 110, 124, 124, 130, 200, 210}	10 10
6.	(a)	Explain trimmed average filtering and median filtering with example.	10