Code No: R05411103

Time: 3 hours

 $\mathbf{R05}$

Set No. 2

IV B.Tech I Semester Examinations, NOVEMBER 2010 IMAGE PROCESSING AND PATTERN RECOGNITION Bio-Medical Engineering

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

1.	Explain Stochastic simulated annealing algorithm.	[16]
2.	Write short notes on:	
	(a) Training patterns	
	(b) Learning(c) Bayes classifier.	[5+6+5]
3.	(a) Explain the transformation used to rotating a point in 3-D plane.	
	(b) Explain about the basic relationships between pixels.	[8+8]
4.	Explain fundamental steps of digital image processing? What is the need cessing an image.	l for pro- [16]
5.	Briefly explain minimum distance classifier.	[16]
6.	(a) Discuss the Fidelity criteria and error free encoding.	
	(b) Explain the channel encoder and decoders.	[8+8]
7.	Explain sharpening frequency domain filters.	[16]
8.	Explain LMSE algorithm with a suitable example.	[16]

Code No: R05411103

Time: 3 hours

 $\mathbf{R05}$

Set No. 4

IV B.Tech I Semester Examinations, NOVEMBER 2010 IMAGE PROCESSING AND PATTERN RECOGNITION Bio-Medical Engineering

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

1.	Explain fundamental steps of digital image processing? What is the need cessing an image	for pro- [16]
	cessing an image.	[10]
2.	Explain sharpening frequency domain filters.	[16]
3.	Briefly explain minimum distance classifier.	[16]
4.	(a) Discuss the Fidelity criteria and error free encoding.	
	(b) Explain the channel encoder and decoders.	[8+8]
5.	Write short notes on:	
	(a) Training patterns	
	(b) Learning	
	(c) Bayes classifier.	[5+6+5]
6.	Explain LMSE algorithm with a suitable example.	[16]
7.	Explain Stochastic simulated annealing algorithm.	[16]
8.	(a) Explain the transformation used to rotating a point in 3-D plane.	
	(b) Explain about the basic relationships between pixels.	[8+8]

 $\mathbf{R05}$

Set No. 1

IV B.Tech I Semester Examinations, NOVEMBER 2010 IMAGE PROCESSING AND PATTERN RECOGNITION **Bio-Medical Engineering**

Time: 3 hours

Code No: R05411103

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ****

1.	Explain sharpening frequency domain filters.	[16]
2.	(a) Explain the transformation used to rotating a point in 3-D pla(b) Explain about the basic relationships between pixels.	ane. [8+8]
3.	Explain fundamental steps of digital image processing? What is the cessing an image.	ne need for pro- [16]
4.	Explain LMSE algorithm with a suitable example.	[16]
5. 6	Explain Stochastic simulated annealing algorithm.	[16]
0.	(a) Training patterns(b) Learning	
	(c) Bayes classifier.	[5+6+5]
7.	(a) Discuss the Fidelity criteria and error free encoding.	
	(b) Explain the channel encoder and decoders.	[8+8]
8.	Briefly explain minimum distance classifier.	[16]

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 $\mathbf{R05}$

Set No. 3

IV B.Tech I Semester Examinations, NOVEMBER 2010 IMAGE PROCESSING AND PATTERN RECOGNITION **Bio-Medical Engineering**

Time: 3 hours

Code No: R05411103

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks *****

1.	Briefly explain minimum distance classifier.	[16]
2.	(a) Explain the transformation used to rotating a point in 3-D plane.(b) Explain about the basic relationships between pixels.	[8+8]
3.	Explain LMSE algorithm with a suitable example.	[16]
4.	(a) Discuss the Fidelity criteria and error free encoding.	
	(b) Explain the channel encoder and decoders.	[8+8]
5.	Explain Stochastic simulated annealing algorithm.	[16]
6.	Explain sharpening frequency domain filters.	[16]
7.	Explain fundamental steps of digital image processing? What is the need cessing an image.	l for pro- [16]
8.	Write short notes on:(a) Training patterns(b) Learning	
	(c) Bayes classifier.	[5+6+5]
