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FACULTY OF INFORMATICS

B.E. 4/4 (I.T.) II-Semester (Main) Examination, May / June 2012

Subject: Pattern Recognition (Elective-IV)

Max. Marks: 75 Time: 3 Hours

Note: Answer all questions of Part - A and answer any five questions from Part-B.

	PART – A (25 Marks)	
1.	What is Feature extraction?	
2.	What is unsupervised learning?	
3.	Define classifier.	
4.	What is univariate density?	
5.	What is supervised learning?	
6.	What is pattern recognition?	
7.	What is k-means clustering?	
8.	What is preprocessing?	
9.	What is principle component analysis?	
10.	What are the applications of pattern recognition?	
	PART – B (5x10=50 Marks)	
11.	Discuss Bayesian decision theory.	(10)
12.	Discuss compound Bayesian decision theory.	(10)
13.	Discuss maximum likely hood estimation.	(10)
14.	Explain Learning of HMM.	(10)

15.

16.

17.

Explain Fuzzy k-means clustering.

Explain Stepwise optimal Hierarchical clustering.

Discuss independent component analysis.