## **INDIAN STATISTICAL INSTITUTE**

## M.S (QMS) First Year

## Second Semester - Pattern Recognition

Date: 27-02-2015		Duration: 60 minutes	Duration: 60 minutes Maximum	
		Note: Answer all question		
1.	Discuss four performa	nce measurement indexes of any classifie	er.	[6]
2.	Explain the basic steps	feature selection and feature extraction p of feature selection. Describe how princ n be used for feature reduction?		[9]
3.	Describe the advantage Distance Function	es and disadvantages of Mahalanobis		[5]
4.	-	neighbour decision rule for pattern classi es and disadvantages in using this rule.	fication.	[6]
5.	Write a note on linear a	and non-linear discriminate functions for	r classification.	[6]
6.	Derive the minimum di	istance classifier from Bayes decision rul	e.	[8]