

## **Decision functions**

**Dr. K.Vijayarekha**

**Associate Dean**

**School of Electrical and Electronics Engineering**

**SASTRA University, Thanjavur-613 401**

## Table of Contents

<b>1.ANSWERS.....</b>	<b>3</b>
-----------------------	----------

## 1.ANSWERS

1. Decision functions help us in deciding the class to which each sample in a system belongs to
2. The plane having the measurands  $x_1$  and  $x_2$  as the two axes and where each sample is represented by a single point based on the measurands  $x_1$  and  $x_2$  is called a measurement space.
3. If the equation representing the decision function is linear equation then the decision function is a linear decision function
4. If the equation representing the decision function is non- linear, then the decision function is a non linear decision function.
5. If the samples pertaining to each of the pattern classes can be grouped together and can be distinguished from the rest of the groups then they are said to be geometrically separable.