Discriminative vs Generative Quiz ************************************	CSE 255, Spring 2019
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Name:	
PID:	
This is a quiz for CSE255/DSE230 On your desk you should have only the exam paper and writing tools. No hats or hoods allowed (unless religious items). There is one question in this quiz. Write your answer in the lines provided. You have 5 minutes to complete the exam. Start by writing your name and PID on this page. Good Luck!	
Suppose you are given a set of $n$ labeled points $(x_1 y_i \in \{-1, +1\}.$	$(x_1, y_1), (x_2, y_2), \dots, (x_n, y_n)$ where $x_i \in \mathbb{R}^d$ and
1) Suppose you know that the data is ganarated by equal variances (radii), one corresponding to the labe and that examples are drawn from each gaussian wi the error on a test set drawn from the same distributhis rule as a mathematical expression.	l+1, the other corresponding to the label $-1$ th probability $1/2$ . Your goal is to minimize
2) Suppose you know that the data was generated acabout $P$ is that there exists a linear classifier with suminimize the error on a test set drawn from the same Express this rule as a combination of words and mat	nall expected error. Your goal is the same, to e distribution. What rule should you output.