

### ELE 364: Assignment #6

1. (10 pts) Based on the table below, calculate the following evaluation measures.

ID	Target	Prediction
1	False	True
2	False	False
3	True	True
4	True	True
5	True	True
6	True	True
7	False	False
8	False	False
9	True	True
10	True	False
11	False	True
12	False	False

- (a) A confusion matrix and the misclassification rate.
  - (b) The average class accuracy (harmonic mean).
  - (c) The precision, recall, and F1 measure.
2. (10 pts) Problem 9(a) from the book.
3. (10 pts) Problem 10 from the book.
4. (10 pts) Calculate the stability index for the periods of Sample 1 and Sample 2, and determine whether the model should be retrained at these points.

Target	Original	Sample 1	Sample 2
A	100	150	200
B	300	250	200