



**BRAC University**  
**Department of Computer Science and Engineering**  
CSE 422: Artificial Intelligence  
Quiz 03: Fall 2024   Time: 30 Minutes   Marks: 10

Name:

ID:

1. You have got two decision trees: Tree A and Tree B. Both of them are giving same training accuracy and test accuracy. Depth of Tree A is slightly greater than the depth of tree B. Which tree will you select to use? Why? [2]

A	B	C	Y
F	F	F	F
T	F	T	T
T	T	F	T
T	T	T	F

2. Consider the above data. There are three features A,B,C and a label Y. Which feature will be selected if gini index is used? [8]