Question 1

Criteria	Points
Total Points	40
Decision Tree	30
showed work and reasoning	15
selected feature with lowest remainder or highest info gain for each node	3
computed remainder / info gain correctly	3
for each feature added, there is a branch for each possible value of that feature	3
terminated recursion / added leaf node only at base case	3
selected correct label for leaf node depending on which base case was encountered	3
Accuracy	10
brief discussion	5
correct accuracy	5

Question 2

Criteria	Points
Total Points	10
KNN	10
showed work and reasoning	5
correct classification	5

Question 3

Criteria	Points
Total Points	100
Program	30
submitted program that implements ID3	25
code is commented	5
Testbeds	25
uses whatever trees are built (even if trees are wrong) to predict examples correctly	7
testbed 1	5
testbed 2	5
testbed 3	4
testbed 4	2
testbed 1 - flipped test	2
Wine Evaluation	45
reasonable tree obtained and printed	15
list of incorrectly classified test-set examples	6
fraction of test-set examples correctly (or incorrectly) classified	6
brief analysis of tree	10
discuss a false positive	4
discuss a false negative	4