

## 20SCS2050 - Quiz 18(6 Points)

1.

The higher the entropy ...

(1 Point)

the more disperse are the values in the collection

the more uniform are the values in the collection

the more similar are the values in the collection

the more consistent are the values in the collection

2.

A zero entropy means that ...

(1 Point)

all values in the collection are different

all values in the collection are the same

the collection is divided in 2 homogeneous groups

the collection has a very large number of distinct elements

3.

Decision nodes in a decision tree are

(1 Point)

internal nodes containing decision-like expressions

leaf nodes containing decision-like expressions

internal nodes containing target data

leaf nodes containing target data

4.

The process of building a decision tree tries to [minimize/maximize] the information gain as it moves [up/down] the tree

(1 Point)

minimize, up

minimize, down

maximize, up

maximize, down

5.

A decision tree built using the process described in lesson 16 and based on a dataset containing 10 attributes will have a height of

(1 Point)

8

9

10

11

6.

According to the process of building a decision tree described in lesson 16, each attribute from the dataset can only be used once

(1 Point)

true

false