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## BITS WILP Data Mining Mid-Sem Exam 2017-H2 (Make Up)

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Date of exam: 14/Oct/2017 (AN)

BITS WILP Data Mining Mid-Sem Exam 2017-H2 (Make Up) BITS WILP Database Design And Applications Mid-Sem 2017-H1 (Regular) Work Integrated Learning Programmes Division First Semester 2017-18 Mid Semester Test EC-2 Make Up Course No: IS ZG415 Course Title: Data Mining

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Mid-Semester Test (EC-2 Make-up)

: IS ZC415 : DATA MINING Course No. Course Title Nature of Exam : Closed Book Weightage : 30%

Duration : 2 Hours Date of Exam : 14/10/2017 (AN)

No. of Pages No. of Questions = 5

Note:

te:
Please follow all the Instructions to Candidates given on the cover page of the answer book.
All parts of a question should be answered consecutively. Each answer should start from a fresh page.
Assumptions made if any, should be stated clearly at the beginning of your answer.

The following data is of diameter of a random sample of 11 trees. 11.4, 13.3, 18.3, 2.7, 26.0, 43.6, 32.6, 52.2, 47.2, 69.3, 2.3

Find five-number summary and Inter Quartile Range (IQR). Draw boxplot for the observations. Show all labels and outliers, if any.

You are given 10 training samples. They are divided into four classes: CLASS-A, CLASS-B, CLASS-C, and CLASS-D. One sample belongs to CLASS-A, two belong to CLASS-B, three belong to CLASS-C, and four to CLASS-D. Use the following  $\log_2$  table to answer the questions.

log(p)
-3.32
-2.32
-1,74
-1.32
-1.00
-0.74

What is the total entropy of the samples?

What is the Gini index of the samples? (b)

- Imagine that you have created a large and complex decision tree from a training dataset that contain many attributes
  - Your tree has a high accuracy on the training set, but the accuracy on the test set is very low. Explain why the accuracy on the test data could be so much lower than on the training data.
  - You apply pruning methods and create a series of successively smaller subtrees from the full decision tree. As you continue to prune more, the test accuracy goes up in the beginning, but then starts to drop again. Explain the increase and then decrease of test accuracy in terms of specific terminology and concepts. [3]

IS ZC415 (EC-2 Make-up)

First Semester 2017-2018

Page 1 of 2

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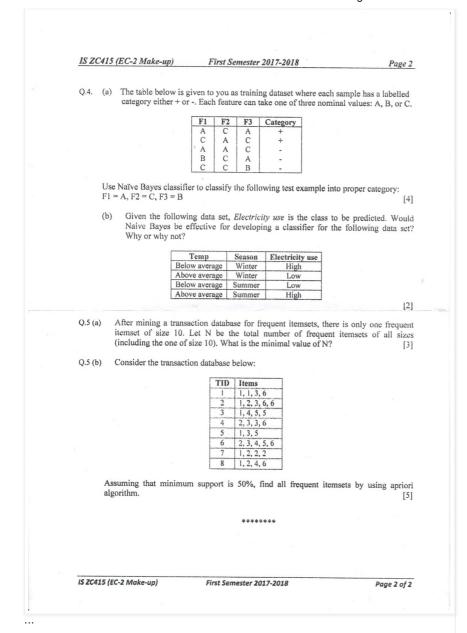
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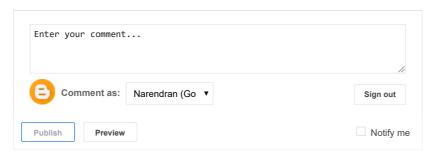


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