## CptS 315 Introduction to Data Mining Midterm Exam 1, Spring 2020

Exam date: Mar 12

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## Instructions.

- The maximum score of the exam is 100 points.
- Read all the questions before starting to answer. Try to answer those questions, which you think are easy from your perspective first. You can select a subset of questions that are worth 100 points to answer.
- Work efficiently. Most questions don't require much work. If you are spending more than 3 mins on any question, then you should try to re-think about it.
- · Keep your answers short and simple.
- Short Questions (25 points)

tions. (True/False)

Please keep your answers short (one sentence). For the True / False questions, please also provide a short justification.

0. (2 points) Incredibly hard question! What is the course number for this data mining class?

315

1. (5 points) Park-Chen-Yu (PCY) algorithm is always more efficient than Apriori algorithm for finding frequent item-pairs (True/False)

False: The PCY Algorithm must have 2/3 0=

the Possible Candale pours be eliminated in the first pass to

be much explicitly. The aprior (Triangular method) will be 4 bytes/pair while PCY

2. (5 points) User-user collaborative filtering and item-item collaborative filtering are duals 15 12 bytes/

of each other. Therefore, they both are equally accurate when applied to real-world applica
(fabular)

False: The 1tem-1tem conaborative
filluring essentially is better in Implementation (or in
Prectice).