CSE 4/535-Introduction to Information Retrieval - Fall 2023

Midterm 1 Examination Instructions

Date: 2nd October 2023, 5:10-6:10 PM EST

Please read the following instructions carefully:

1. **Duration**: The total time allocated for this exam is **1 hour**. Please manage your time efficiently.

2. **Question Format**: The exam consists of **30** Multiple Choice Questions (MCQs). Choose the most appropriate answer for each.

3. **Belongings**: All bags should be placed on the ground. Ensure your workspace is clear of any items not needed for the exam. Please **bring your UBIT card** and put in on your desk.

4. **Unauthorized Materials**: No copies, papers, notes, or other reference materials are allowed. If any are found in your possession, they will be confiscated, and you may face penalties.

5. **Calculators**: No calculators are permitted.

6. **Seating**: There are no specific seating arrangements. Choose any available seat that you feel comfortable in. However, please ensure to maintain a respectful distance from your peers.

7. **Restrictions**: Usage of ChatGPT, any assistive technology, or search engines such as Google is strictly prohibited. Any student caught using these technologies will receive a 0 for the exam.

8. **Laptop Settings**: Ensure the brightness is high enough. This is to maintain visibility for the invigilators. Tab should not be changed during the exam.

9. **Mobile Device**s: All mobile devices should be switched off or set to airplane mode and placed in your bag. They should not be accessible during the examination.

10. **Washroom**: If you need to use the restroom, raise your hand to get the attention of an invigilator. Please note that frequent or lengthy restroom breaks may be noted and considered suspicious.

11. **Queries**: If you have any queries or require clarification during the exam, please raise your hand and wait for an invigilator to attend. Speaking or trying to communicate with other students is not permitted.

12. **Honesty**: Academic honesty is expected from all students. Any cheating, impersonation, or misconduct will result in severe penalties, per the institution's policy.

Sample Questions

Question 1
The VSM model's cosine similarity metric is a sufficient statistic to capture any
Documents: T/ F

Answer: False

Question 2
Gamma Code of 13 is:
   a. 1110101
   b. 1010101
   c. 1111000
   d. 1010011

Answer: a

Question 3
The OR operator assigns a higher score to documents that contain both terms: T/ F

Answer: False

Question 4
In a general information seeking environment involving real users, precision and
recall are inversely correlated.: T/ F

Answer: True

Question 5
Stemming is primarily recall-enhancing: T/ F

Answer: True