## DSCI 558: Building Knowledge Graphs

## Quiz 22 (6 minutes)

Question 1 (4 points):

Select the type of challenge shown in each of the following questions:

* 1. “Where is the nearest bank?”

1. Complexity
2. Procedural Question
3. Ambiguity
4. Distributed Knowledge
   1. “Which is heavier, a Macbook or a Surface?”
5. Complexity
6. Procedural Question
7. Ambiguity
8. Distributed Knowledge
   1. “How can I get a good grade in INF558?”
9. Ambiguity
10. Procedural Question
11. Complexity
12. Distributed Knowledge
    1. “What verbs rhyme with the current president’s last name?”
13. Ambiguity
14. Complexity
15. Procedural Question
16. Distributed Knowledge

Question 2 (4 points):

Choose the correct answer for each of the following questions:

* 1. In the context of QA over KGs, when does lexical gap occur?

1. When the same terms in the question and in the ontology have different meanings
2. When the terms used in a question are different from what the ontology contains
3. When the language used in the question is not the same language used to encode the ontology (i.e., German vs. English)
4. When an NLP dependency-tree parser fails to recognize the relation in a question
   1. Which information extraction approach is good for aligning question templates to SPARQL queries?
5. Open IE
6. Bootstrapping
7. Snorkel
8. Named entity recognition

Question 3 (2 points):

Arrange the following steps in the correct order in a Q&A system

1. Focus entity
2. Lexical Answer Type Prediction
3. Question Type Prediction
4. Constraint Classification