Name:	Reg #:	Section:
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National University of Computer and Emerging Sciences, Lahore Campus

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Course: Natural Language Processing MS(Computer Science)
Duration: 30 Minutes
Paper Date: 8 May-19

Section: CS
Exam: Quiz 4

Course Code: CS 535 Semester: Spring 2019

Total Marks: 12
Weight 5%
Page(s): 2

5% 2

Q1) Compute value of ROUGE-2 score for following summary. [4 Marks]

System Generated Summary: The quake had a preliminary magnitude of 6.9. in an area so isolated there are no roads connecting it to the outside world.

Reference Summary (Human Generated Summary): The quake had a preliminary magnitude of 6.9. An earthquake in the same region in February killed 2300 people and left thousands homeless.

Solution:

7/21

- **Q2**) The first step in query focused multi document summarization is to simplify the sentences. Simplify following sentences using simple rules discussed in class. [4 Marks]
 - a) Genette's bedroom desk, the biggest disaster area in the house, is a collection of overdue library books, dirty plates, computer components, old mail, cat hair, and empty potato chip bags.
 - b) Robbie, a hot-tempered tennis player, charged the umpire and tried to crack the poor man's skull with a racket.
 - c) The car began sliding sideways, and then it hit the tree," she said
 - d) He died in France, as a matter of fact, and wated to be buried there.

Solution:

- e) Genette's bedroom desk, is a collection of overdue library books, dirty plates, computer components, old mail, cat hair, and empty potato chip bags.
- f) Robbie, charged the umpire and tried to crack the poor man's skull with a racket.
- g) The car began sliding sideways, and then it hit the tree,"
- h) He died in France, and wated to be buried there.

Name:	Reg #:	Section:
Q3) Explain Bootstrapping met	hod for relation extraction. [4 Marks]	l

Solution:

- Gather a set of seed pairs that have relation R
- Iterate:
 - 1. Find sentences with these pairs
 - 2. Look at the context between or around the pair and generalize the context to create patterns
 - 3. Use the patterns for grep for more pairs