**COMP5423 Natural Language Processing**

Question Answering

Due: Tuesday, 8 April, 2025

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTE: Please submit your answers via Blackboard by due time.

Homework:

Assume you are asked to develop a question-answering system using a set of provided documents containing various facts about climate change. Your objective is to answer questions accurately based on the information **within** these documents.

(1) Define the main components necessary for your question-answering system.

(2) Provide two examples of questions:

* One that your system can extract a short answer span directly from the documents;
* Another that your system must derive the answer through additional processing or further reasoning.

(3) Explain how you would handle questions that require further processing or reasoning.

(Maximum 400 words)