

Department of Data Science
IIT Palakkad
CS5624 : Natural Language Processing

10:00-10:45

Make-up Examination (17 May 2022)

Marks : 10

Instructions

1. Write your answers neatly in Blue/ Black ink. Do not use pencil / Red ink. If your answer is not legible, you will not get any marks for that.
2. Doubts and questions will not be answered during the exam. If you have to make any assumption about unspecified things, write the assumption clearly with justification.
3. Answer all parts of a question together. If the parts of a single question are not together, then only the first part will be evaluated. Other parts will not get any marks.
4. Write your name and ID number at the top of the answer sheet. Save the pdf with the following naming convention: [roll_no]_make_up_22.pdf and upload to the designated assignment in LMS. Do not email.
5. Write question number clearly for each answer. Draw a line after the answer.
6. No hard or soft material are permitted for consultation during the exam.
7. There will be partial markings for the questions, so even if you are not able to solve the entire problem be sincere with the steps.
8. **Be precise.**
9. **There are total 3 questions in this question paper**

1. Prof. Lingo is writing a book on NLP. She wants to create *back-of-the-book* index for the book. How can you assist her for this task? You can use both manual and computational approaches. (3)
2. Give an example of ambiguity associated with each of the following stages for NLP: (4)
 1. Phonology and Phonetics
 2. Morphology
 3. Lexicon
 4. Parsing
 5. Semantics
 6. Pragmatics
 7. Discourse
3. Write down a joke and explain how Grice's maxims are flouted (or violated) in the joke. (3)