CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Regular) - January- 2024
NATURAL LANGUAGE PROCESSING
(CSM)

[Time: 3 Hours]   [Max. Marks: 70]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

PART-A   (20 Marks)

1. a) Briefly explain tokens.   [2M]
   b) Demonstrate approaches to find structure of document.   [2M]
   c) Explain syntax analysis using syntax tree.   [2M]
   d) Discuss word segmentation.   [2M]
   e) What is semantic parsing in natural language processing?   [2M]
   f) Explain system paradigms.   [2M]
   g) What is Word Sense Disambiguation?   [2M]
   h) Explain the systems in meaning representation.   [2M]
   i) Discuss Bayesian Parameter Estimation.   [2M]
   j) Explain Multilingual Language Modeling.   [2M]

PART-B   (50 Marks)

2. Discuss the Issues and challenges in finding structure of words.   [10M]

OR

3. Compare sentence boundary and topic boundary detection.   [10M]

4. Compare the generative and discriminative models in ambiguity resolution for parsing.   [10M]

OR

5. Discuss the various parsing algorithms in syntax parsing.   [10M]

6. Summarize semantic interpretation.   [10M]

OR

7. Discuss the components of word sense system.   [10M]

8. Summarize meaning representation systems.   [10M]

OR

9. Discuss the component of predicate argument structure.   [10M]

10. List and explain any five types of language models.   [10M]

OR

11. Explain Language Model Adaptation.   [10M]

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