

Code No.: AI513PE

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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**

**III-B.TECH-I-Semester End Examinations (Supply ) - December- 2025**

**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) What is meant by the semantics of a Natural Language? [2M]
- b) What is tokenization? How it is used in analyzing document structure? [2M]
- c) Write a short note on parsing algorithms. [2M]
- d) What is word segmentation? [2M]
- e) Explain about structural ambiguity. [2M]
- f) Write about Meaning Representation. [2M]
- g) Explain about Argument Structure. [2M]
- h) Write a note on Structure Management. [2M]
- i) Write a note on Language-specific modeling problems. [2M]
- j) Differentiate Multi lingual and Cross lingual modeling. [2M]

**PART-B**

**(50 Marks)**

2. Discuss about the Morphological Models. [10M]
- OR**
3. Explain in detail about the methods used to find the structure of documents. [10M]
4. Define parsing and explain about shift-reduce parsing. [10M]
- OR**
5. Write a note on
  - a) Models for Ambiguity Resolution in Parsing. [5M]
  - b) Multilingual issues [5M]
6. Explain in detail about semantic interpretation. [10M]
- OR**
7. Describe about the methods of word sense systems. [10M]
8. Illustrate the Predicate Logic with examples. [10M]
- OR**
9. List the differences between Predicate and Predictor. [5M]
10. Explain in detail about reference resolution. [10M]
- OR**
11. Discuss in detail about language specific models. [10M]

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