

Code No.: AI513PE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

III–B.TECH–I–Semester End Examinations (Supply)–June - 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? How does this differ from the pragmatics? [2M]
- b) What is tokenization? How it is used in analyzing document structure? [2M]
- c) Write about the voted perceptron (parsing) algorithm. [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) Explain about 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 and Hyper graphs. [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 structures. [10M]
 10. Explain in detail about reference resolution. [10M]
- OR**
11. Discuss in detail about language specific models. [10M]
