

Code No.: AI513PE

R20

H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Supply) - December- 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) List out different word components. [2M]
- b) Define Lexemes and give two examples. [2M]
- c) What is Syntax? [2M]
- d) List out various parsing algorithms. [2M]
- e) Define semantics. [2M]
- f) Define System Paradigm. [2M]
- g) Give an example for predicate logic. [2M]
- h) What is meaning representation in NLP. [2M]
- i) Define reference resolution. [2M]
- j) List the types of Language Models. [2M]

PART-B

(50 Marks)

2. Analyze how statistical methods can be used in machine translation. [10M]
- OR**
3. Briefly explain about the documents structure. [10M]
4. What is a Tree Bank? Explain its role in Parsing. [10M]
- OR**
5. Explain the models of ambiguity resolution. [10M]
6. List and explain the softwares associated with semantic interpretation. [10M]
- OR**
7. Describe about the methods involved in word sense systems. [10M]
8. Explain in detail about argument structure in NLP. [10M]
- OR**
9. Illustrate in detail about meaning representation system. [10M]
10. Explain in detail about discourse cohesion. [10M]
- OR**
11. Discuss in detail about N- Gram Models. [10M]
