Code No.: DS744PE

R20   H.T.No. [ ][ ][8][R][ ][ ][ ][ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Supply) - April- 2024
NATURAL LANGUAGE PROCESSING
(CSD)

[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 and may have a, b, c as sub questions.

PART-A   (20 Marks)

1. a) List out the words and their components.   [2M]
   b) Define procedure to finding the structure of words.   [2M]
   c) Write the representations parsing natural language.   [2M]
   d) What do you mean representation of syntactic structure?   [2M]
   e) Define semantic parsing.   [2M]
   f) How do you semantic interpretation?   [2M]
   g) What are the representational systems in language?   [2M]
   h) What is an example of a predicate and argument?   [2M]
   i) Write short notes on cohesion.   [2M]
   j) List out various types of language models.   [2M]

PART-B   (50 Marks)

2.   Explain about performances of the approaches NLP.   [10M]

OR

3.   Describe about Complexity of the Approaches with example.   [10M]

4.   Explain the Syntax Analysis with an example.   [10M]

OR

5.   Describe with an example about Treebank's: A Data-Driven Approach.   [10M]

6.   What is need of system paradigms? write the system paradigms with neat diagram?   [10M]

OR

7.   Explain in detail about word sense systems in NLP.   [10M]

8.   Briefly explain meaning representation systems with example.   [10M]

OR

9.   Describe about language model evaluation in NLP.   [10M]

10. Illustrate language-specific modeling problems with suitable example.   [10M]

OR

11. Explain about Multilingual and Cross lingual Language Modeling.   [10M]

****