



QP CODE: 25022670



Reg No :

Name :

M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025

Third Semester

M.Sc ARTIFICIAL INTELLIGENCE

ELECTIVE - AI810302 - NATURAL LANGUAGE PROCESSING (NLP)

2020 ADMISSION ONWARDS

89EECC78

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Write a pattern which places the first word of an English sentence in a register. Deal with punctuation.
2. Write about human morphological parsing.
3. What is syntax? What are the three new ideas related to syntax and grammar?
4. Explain grammar equivalence and normal form.
5. Give examples of subsumption.
6. What are the problems with PCFG?
7. Discuss the meaning representation related to categories.
8. What is meant by currying?
9. What is meant by discourse? What is the problem of reference and related terms?
10. What is meant by coherence?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain the working of an FSA that recognizes strings.
12. What are the Closed Class word types in English? Explain each of them.
13. With proper examples explain the situation in which verbs appear in different forms.
14. Explain Top Down Parsing.
15. Explain briefly DAG representation of feature structures.





16. Discuss CFG specification of the syntax of FOPL.
17. Explain fully unified FD.
18. How RST relations are graphed? Use the sentences –I love to collect classic automobiles. My favorite car is my 2020 Toyota.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay on simple N-grams.
20. Describe the working of Brill's TBL tagger.
21. Explain information extraction.
22. How to map the discourse plans to the input of surface realizers.

(2×5=10 weightage)

