

**FACULTY OF ENGINEERING**

**B.E. 4/4 (CSE) II-Semester (Main) Examination, April / May 2013**

**Subject : Natural Language Processing  
(Elective-III)**

**Time : 3 Hours**

**Max. Marks: 75**

**Note: Answer all questions of Part - A and answer any five questions from Part-B.**

**PART – A (25 Marks)**

1. Define Natural language processing.
2. Describe verb phrase with an example.
3. What are the features of good grammars?
4. What is a hold list?
5. What is Wh-Island constraint?
6. Define logical form, give an example.
7. Define RTN
8. Explain Noun-Noun modifiers.
9. Define semantic grammar, give an example.
10. What do you mean by Interleaved syntactic and semantic analyzer?

**PART – B (5x10=50 Marks)**

11. Explain information flow in a Natural language processing model.
12. Explain top-down and bottom-up parse of the sentence "The Odd man cried".
13. What is transition Network? Explain ATN with example.
- 14.(a) Explain shift reduce parser.  
(b) What is look ahead parser?
15. Explain semantic Networks with example. What is the advantage in removing inheritance property in semantic Network?
- 16.(a) Explain scoping phenomena ?  
(b) Discuss rule by rule semantic interpretation based on Lambda calculus.
17. Write short notes on any two of the following:
  - (a) Adjective phrases
  - (b) Logical form
  - (c) Case Grammar

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