

*Chaitanya Bharathi Institute of Technology*  
Department of Information Technology  
B.E. I.T. VI- Semester, I-Mid Examinations, February 2018  
Sub: NATURAL LANGUAGE PROCESSING

Date: 07.02.2018

Time: 2:00pm-3:00pm

Max. Marks: 20

Part-A

3\*2=6

- 1Q. Discuss the applications of Natural language processing. [2M]  
2Q. Classify the sentences a) syntactically correct or not b) semantically correct or not  
c) pragmatically correct or not [2M]  
i) The car is too cold ii) The heater are on iii) The tires are brand new.  
iv) Too many windows eat the stew.  
3Q. Differentiate Top-down and Bottom-up parsing with an example. [2M]

Part-B (Answer any two)

2\*7=14

- 4Q a) Explain with diagram organization of a natural language understanding system. [4M]  
b) Describe all the levels of language analysis in natural language processing system. [3M]  
5Q a) Draw a Phrase Structure Tree representing parse of the following sentence. Make a list of the phrase structure rules that you are assuming. John and Mary bought a refrigerator with three doors. [4M]  
b) Describe Semantics for Knowledge representation. [3M]  
6Q a) Describe Statistical modelling and classification of FSM. [4M]  
b) Explain how Machine Translation is an application of NL. [3M]



***Chaitanya Bharathi Institute of Technology***  
**Department of Information Technology**  
B.E. I.T. 3/4-II- Semester, II-Mid Examinations, April, 2018  
Sub: NATURAL LANGUAGE PROCESSING

Date: 06.04.2018

Time: 2:00pm-3:00pm

Max. Marks: 20

Part-A

3\*2=6

- 1Q. Explain Grammars and Sentence structures of Natural Language Processing. [2M]
- 2Q. How Parsing will work like search procedure. Explain with an example. [2M]
- 3Q. Draw Markov chain model. [2M]

Part-B (Answer any two)

2\*7=14

- 4Q. Describe Top-Down Chart Parsing with an Example sentence and Algorithm. [7M]
- 5Q. a) Explain Probabilistic context-free grammars with example. [4M]
- b) Explain about prepositional phrases and verb phrases. [3M]
- 6Q. a) Describe Part-of-speech tagging of language. [4M]
- b) what is best first algorithm. Explain with example. [3M]

Paper set by: Sarada B