Reg. No.:

Name :



Mid Term Examination KEY - March 2015

Programme	:	M.Tech Computer Science & Engineering	Semester	:	Winter 2015
Course	:	Natural Language Processing	Code	:	CSE528
Faculty	:	Prof. Tulasi Prasad Sariki	Slot	:	F2
Time	:	One and Half Hours	Max. Marks	:	50

Answer ALL Questions

	Sec.		Description	Marks		
1.		An organization is trying to extract all their customer email addresses from a text				
		document. Help them out by writing a regular expression to fulfill their need.				
		{^[A-Za-z0-9]+@[[A-Za-z0-9]+\$}			
2.		Deduce the reasons for using Finite State transducer rather than the finite state				
		automaton for developing morphological analyzers?				
		FSA can act as a	FST can act as a			
		Recognizer	Recognizer			
		Generator	Generator			
		5 tuple Representation	7 tuple Representation			
		Equivalent to regular languages	Equivalent to regular relations			
			Translator			
			Set relator			

- the verb and/or adjective actually refer to?
- iv. Sarcasm If you don't know the author you have no idea whether 'bad' means bad or good.
- v. Twitter abbreviations, lack of capitals, poor spelling, poor punctuation, poor grammar.
- vi. Fake reviews/Spam
- vii. Biased reviews
- viii. Word sense disambiguation
- ix. Preprocessing and Cleaning

5.	You are given a large text document to produce effective summary. Describe your methodology to summarize in more effective way. i. Statistical ii. Linguistics (NLP) iii. Lexical chains
6.	An organization need a stemmer to perform some text analytics, suggest a suitable approach from the given choices i. Table look—up approach ii. Successor Variety iii. n—gram iv. Affix Removal State the reasons behind your choice. Describe your choice and state the advantages of your choice over other
7.	Suppose you want to carry out corpora analysis of English for identifying the distribution of lengths of sentences in the corpus but the sentence boundaries are not annotated in the corpus. Explain any one approach to carry out this task? Sentence boundary disambiguation
