CSI AEC DLL Context Synonym Irony, sarcasm

Ambuiguity Errors in text Colloquialism, slangs

Domain specific language Low resource language Lack of research and development

Nirma University

Institute of Technology Class test, Feb-2021

B. Tech(CSE), Semester-VI

2CSDE70 Natural language processing

	Supervisor's initial with date: 15 hours Max. Marks tions: 1. Attempt all questions.] : 35
	2. Figures to right indicate full marks.3. Draw neat sketches wherever necessary.4. Assume suitable data wherever necessary and clearly indicat	e it.
Q-1.	Do as directed.	
A	Discuss most difficult problems of natural language processing.	[05]
В	Write regular expression for following definitions.1. The set of all lower-case alphabetic strings ending in a b.2. All strings which can be used as identifier in C language.	[06]
С	Apply porter stemmer algorithm on following paragraph. "A paragraph is a series of related sentences developing a central idea, called the topic. Try to think about paragraphs in terms of thematic unity: a paragraph is a sentence or a group of sentences that supports one central, unified idea. Paragraphs add one idea at a time to your broader argument."	[06]
D	Apply bigram probability and find out highest probability pair from following data. <s> I am Sam </s> <s> Sam I am </s> <s> I do not like green eggs and ham </s>	[06]
E	Discuss and Apply Maximum Matching Word Segmentation Algorithm on "Thetabledownthere".	[06]
F	Apply Boolean model on following statement. Consider these documents: Doc 1 breakthrough drug for schizophrenia Doc 2 new schizophrenia drug Doc 3 new approach for treatment of schizophrenia Doc 4 new hopes for schizophrenia patients For the document collection, Use and depict the Boolean model and what are the Returned results for query "schizophrenia AND drug"	[06]