Paper / Subject Code: 59206 / Elective I: Natural Language Processing.

ME/Sem I/CBCGS/COMP/ND-18/7-12-2018

Duration: 3 Hrs Total Marks: 80

	Not	2)	Question No.1 is compulsory. Attempt any three questions out of the remaining five. Figures to the right indicate full marks.	
Q.	1	a)	What is Natural language processing (NLP)? Discuss various stages involved in NLP process with suitable example.	10
		b)	Explain derivational & inflectional morphology in detail with suitable examples.	10
Q.	2	a)	What is parsing? Explain Top-down & Bottom-up approach of parsing with suitable example.	10
		b)	Discuss various approaches to perform Part-Of-Speech (POS) tagging.	10
Q.	3	a)	What is language model? Write a note on N-Gram language model.	10
		b)	Explain CFG with suitable example. Discuss following potential problems in CFG such as: 1) Agreement 2) Sub categorization 3) Movement	10
Q.	. 4	a)	Define discourse & pragmatic analysis. Discuss reference resolution problem in detail.	10
		b)	CANCEL SERVICE CONTROL OF THE PROPERTY OF THE	10
Q	. 5	a)	What is stemming. Explain Porter's stemming algorithm in detail.	10
		b)	Explain with suitable examples following relationships between word meanings: Homonymy, Polysemy, Synonymy, Antonymy, Hypernomy, Hyponymy, Meronomy	10
Q		(a) (b) (c) (d)	N. DKDW D. B. W. M. M. M. W. W. C.	20