Total No	o. of Questions : 10]		SEAT No. :				
P3137	7	[5154]-	703	[Total No. of Pa	iges: 2		
	B.E. (I.T.)						
Natural Language Processing							
(2012	2 Pattern) (Sem	ester - I)(Elect	tive - l	II) (End Sem.) (41445'	7 E)		
Time :2½ Hours] Instructions to the candidates:				[Max. Marks :70			
1) 2) 3) 4)	Solve any 1 out of Q	Q1 or Q2 and any 1 Q5 or Q6 and any 1 es and assume suita	out of Q ble data	Q3 or Q4 and Q7 or Q8 and any 1 out of Q9 on wherever necessary.	or Q10.		
Q1) a)	-	n example sema n natural languag		nd pragmatic level of lan	guage [6]		
b)	State natural lar	nguage processing	g systei	m evaluation methods?	[4]		
		OR					
Q2) a)	State and explain applications of Natural Language Processing.						
b)	Which are elements of noun phrases? Explain with appropriate exampl						
Q3) a)	Describe the Person and Number features in natural language processing [6]						
b)	Classify follow	ing sentences			[4]		
	i) Large have	e green nose	ii)	I apple eat			
	For each of the	following explain	:				
	1) Syntactica	lly correct or not	, 2)	Semantically correct or a	not		
		OR					
Q4) a)	Describe bottom-up chart parsing algorithm with example.						
b)	Explain definite	clause grammar.			[4]		

Q 5)	a)	Explain human preferences in encoding uncertainty during parsing	[8]					
	b)	Describe estimating probabilities for part of speech tagging.	[8]					
	OR							
Q6)	a)	Describe probabilistic context-free grammar with example.	[8]					
	b)	Describe a simple context dependent best first parser.	[8]					
Q7)	a)	Describe lexical resource wordnet used in natural language processing	;. [8]					
	b)	Describe semantic web ontology and its applications?	[8]					
		OR						
Q8)	a)	Write a short note on description logic.	[8]					
	b)	Explain word senses and ambiguity in natural language processing.	[8]					
Q9)	a)	Describe automatic machine translation and metric used for its evaluat	ion. [9]					
	b)	Explain sentiment analysis with an example.	[9]					
OR								
Q10) (a)	How is natural language processing useful in automatic speech process	ing. [9]					
	b)	State use of natural language processing in automatic text summarizat	ion. [9]					

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