P2046

SEAT No. : [Total No. of Pages : 2

## [5059] - 651

## **B.E.** (Computer Engineering)

## MULTIDISCIPLINARY NATURAL LANGUAGE PROCESSING (2012 Pattern) (Elective - II) (Semester - I)

	(2012 Pattern) (Elective - II) (Semester - I)	10	
Time:27	4 Hours	[Max. Marks :70	
	ions to the candidates:-		
<i>I)</i>	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.		
2) 3)	Figures to the right indicate full makers.		
3)	Assume suitable data if necessary.		
<i>Q1)</i> a)	Define the following terms:	[6]	
	i) Parsing ii) Robust Parsing		
b)	Explain Automatic Stochastic Tagging of natural language texts.	[4]	
	OR		
<b>Q2)</b> a)	Explain the significance of Lexical Knowledge Networks in NLP.	[6]	
b)	Write a short note on: Viterbi algorithm of FSM process.	[4]	
<b>Q3)</b> a)	Illustrate the Basic steps of EM algorithm alongwith it's Analysis.	[6]	
b)	Explain in short: Forward Backward probability	[4]	
	OR		
<b>Q4)</b> a)	Define HMM. Draw the diagram that shows Ergodic and non-erg models	odic [6]	
b)	What is Conditional Random Field (CRF)? How it is advantages HMM?	than [4]	

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	c)	Sentiment Analysis		
	b)	Question Answering in Multilingual Setting		
	a)	Robust and Scalable Machine Translation		
Q10)	Writ	te a Note on:	[18]	
		OR		
	b)	What is Cross Lingual Information Retrieval? Explain it.	[8]	
		ii) Text mining		
		i) Web mining		
Q9)	a)	Explain the following terms of NLP applications:	[10]	
	b)	Write a note on: Semantic role	[8]	
Q8)	a)		[8]	
	•	iii) Unsupervised OR		
		ii) Supervised		
		i) Knowledge-Based		
	b)	Explain in short the following approaches of Word Sense Disambigua	[8]	
Q7)	a)	Multilingualism and bilingualism,	լօյ	
0 <b>=</b> )	,			
	b)	Cara a sh		
Q6)	a)		ation [8]	
	U)	What is Speech Disorders ? Give it's Causes.  OR	[o]	
	b)	iii) Acoustic level What is Speech Disorders 2 Cive it's Courses	[8]	
		ii) Physiological level		
		i) Linguistic level		
Q5)	a)	Explain the following levels of Speech chain:	[8]	

[5059] - 651