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[5254]-671

B.E. (Computer Engineering) **MULTDISCIPLINARY NATURAL LANGUAGE** PROCESSING

(2012 Pattern) (Semester - I) (Elective - II)

Time : 2¹/₂ Hours]

Instructions to the candidates:

- 1) Answers Q1 or Q2, Q3 or Q4, Q5 or Q6, Q.7 or Q.8, Q.9 or Q.10.
- 2) Figures to the right indicate full marks.
- 3) Assume Suitable data if necessary
- *01*) a) Define the following terms:
 - Hybrid Parsing i)
 - **Robust Parsing** ii)
 - Give the significance of Named Entities in Natural Language Processing.[4] b)

OR

- What is meant by Scope Ambiguity and ambiguity resolution? *Q2*) a) [6]
 - With suitable example, explain the Maximum Entropy framework. b) [4]
- With suitable example, explain how robust processing is used on noisy *Q3*) a) web collected data? [6]
 - Enlist the steps of Graphical models for sequence labeling in NLP. [4] b)

OR

Q4) a)	What do you mean by Unsupervised NLP? Compare Unsupervised NLI	
	with Supervised NLP.	[6]
b)	Write a Note on: Discourse Processing.	[4]

[Max. Marks: 70

[6]

Q5)	a) b)	What is Speech Synthesis? Explain Multimodal / audio-visual speech synthesis. [8] Differentiate between Sentence-level and adaptation level Phenomena.[8]	
OR			
Q6)	a)	What is Acoustic Speech Analysis ? Explain it.[8]	
	b)	Write a note on Auditory physiology.[8]	
Q7)	a)	Define Metaphor. Give suitable example. [8]	
	b)	Explain in short the following approaches of Word Sense Disambiguation. [8]	
		i) Knowledge-Based	
		ii) Supervised	
		iii) Unsupervised	
OR			
Q8)	a)	Explain the importance of Multilingual Dictionary. [8]	
	b)	Write a note on: Semantic role.[8]	
Q9)	a)	With suitable example, Explain Textual Entailment. [10]	
	b)	Explain various uses/applications of machine translation. [8]	
OR			
Q10)Wri	te a Note on : [18]	
	i)	Database interface in machine translation.	
	ii)	NLP applications.	
	iii)	Sentiment Analysis	

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